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Lyndon B. Johnson Space Center

Houston Texas 77058

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EARTH OBSERVATIONS DIVISION

SPACE AND LIFE SCIENCES DIRECTORATE

"AS-BUILT" DESIGN SPECIFICATION
FOR
CAMS DEVELOPMENT DOT DATA

SYSTEM (CDDDS)

TIRF 79-0004

Job Order 76-662

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Prepared By

O. Wehmanen

APPROVED BY

LEC

NASA

J. I. Morrow, Supervisor Scientific Applications Software

Section

tems and Facilities Branch

Prepared By

Lockheed Electronics Company, Inc.

For

Earth Observations Division

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1. INTRODUCTION

This document describes the implementation details of that part of the CAMS Development Dot Data System which has been put under formal configuration control.

This consists of a data base, eight programs which can be used to maintain the data base, and fifteen subroutines which can be used in Fortran programs to process the data in various ways. This system supports the task of developing products to aid the analyst interpreter in identifying grid dots. Since this is a development system, the ability to quickly and easily change the application software is important. The programs described here contribute to this end.

2. APPLICABLE DOCUMENTS

• TIRF 79-0004, "File Storage Problem", March 1979.

3. SYSTEM DESCRIPTION

3.1 GENERAL

The CAMS Development Dot Data System (CDDDS) has 3 parts. The first is the data file and its index. The data file consists of records containing 256 Integer *2 words, usually spectral values for one channel for 209 dots or labels for 209 dots. The index file contains segment pointers for the data file. The second part of the system is a set of programs which can be used to maintain the data files. Third is a collection of subroutines which can be called by programs to use the stored data for exploratory and development tasks.

3.2 FILE DESCRIPTION

The data files for the CDDDS consist of 512 byte records, a size chosen to minimize I/O processing time (Fortran IV - Plus User's Guide pg 4-9). In order to avoid confusion with other files, these files were given the type .ACA, by Al C. Anderson, their designer. There are two different types of .ACA files, index files and data files.

3.2.1 THE INDEX FILE

An index file consists of duplicate record pairs. Each record is organized as 256 Integer *2 words. The first record pair, record 1 and 2 contains only 2 words:

Word 1- The number of records in the index file

Word 2 - The number of records in the data file

All other words are zero.

The subsequent identical record pairs contain segment identifiers in odd words and pointers in even words:

- Word 2n-1 The segment number for a segment which has been stored in the data file (or zero).
- Word 2n A record number in the data file which contains data for the segment number in word 2n-1 (or zero).

One of these files may have pointers for 128 segments. An index file typically has 10 or fewer records.

3.2.2 THE DATA FILE

Each record of the data file contains 256 Integer *2 words. 209 of the words typically contain spectral values for one channel for 209 dots or labels for the 209 dots. The other 47 words contain identifying information, data base pointers and ancillary information.

The input sources do not always contain the ancillary information, so the ancillary information may be in error.

Data file record format.

Word

- Segment identification
- 2 Acquisition year
- 3 Acquisition day
- 4 0
- 5-7 Record type code
- 8 (
- 9-217 Dot specific data
- 218 0
- 219 Sun angle
- 220 Soil line greenness estimate
- 221 Satellite identification
- 222 Latitude degrees
- 223 Latitude min.
- 224 Longitude degrees
- 225 Longitude min.

226-253	0
254	Delete flag
255	Pointer-back
256	Pointer-forward

3.3 PROGRAMS FOR FILE MAINTENANCE

3.3.1 LOAD LABELS FROM CARD (CDLABLD)

3.3.1.1 Linkage

This program calls GETNAM entry GETCRD and PUT.

3.3.1.2 Interface

The interface with GETNAM is through the calling arguments the interface with PUT is through the calling arguments and the common blocks ANCIL and FILNAM.

3.3.1.3 Input

Data is read from cards in the default file FØR001.DAT.

For each segment to be loaded there must be a HEADER card with format:

COL 1-6 HEADER

COL 10-13 Segment number

COL 15-20 Code name, for example TRTH78

HEADER 1663 TRTH78

The dot labels may be entered in two different formats on DOT or LINE cards.

DOT card format (like ERIPS format):

COL 1-4 DOTb (b is blank)

COL 6 Label 1

COL 8 Label 2

COL 10-80 Dot numbers separated by one or more blanks.

For example, the card DOT W 1 37 123 201 assigns label W1 to dots 37, 123, and 201.

LINE card format:

COL 1-4 LINE

COL 10-11 Line number (1,2...,11)

COL 13-14 Label for first dot of line

COL 16-17 Label for second dot of line

COL 67-68 Label for 19th dot of line

For example, the card

LINE 06 W1 A3.

Assigns label W1 to dot number $\underline{96}$ or line $\underline{6}$ col $\underline{1}$ and label A3 to dot 97.

The last data card should have STOP in col 1-4. If this is missing, the statement CDLABLD STOP BAD DATA? will print on the operators terminal at the end of the job.

3.3.1.4 Output

This program creates a report (fig. 3.3.1.4) and writes new records into the ACA data 1.1e.

3.3.1.5 Storage

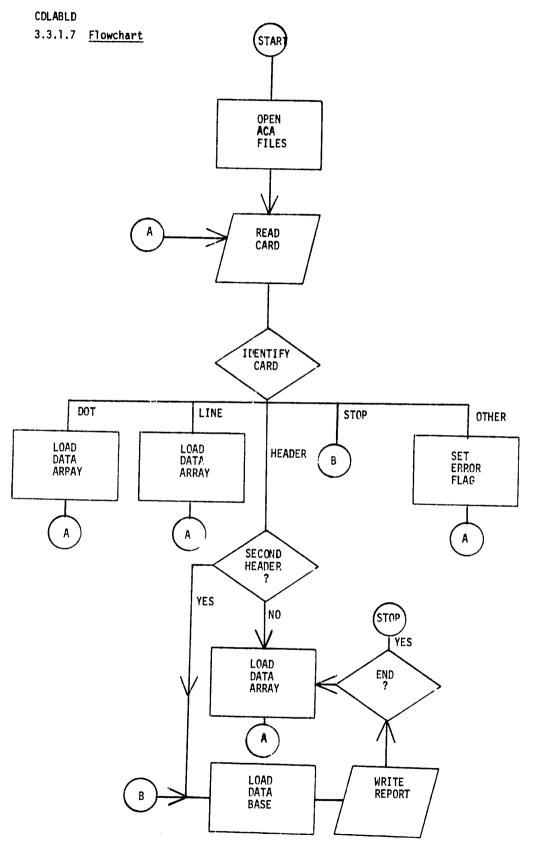
955 Bytes

3.3.1.6 Description

This program reads cards for one segment, loading the labels into an array. When it encounters the next HEADER card or a STOP card it calls PUT to load the data into the ACA data base.

: ... COLABLO UPDATE PF (200,7308TDATA,ACA LAGELS FOR SEG 1663 HAVE GEE - LOADED FREM CARD CODE NAME COLDED STATUS O CIBILITY Figure 3.3.1.4 3-7

تت



100 100		C CDLABLE FT
		CDLAGLD 1,4,4EMANET FER 1979 IMPLICIT INTEGERAL FER 1979
	2000	IMPLIUIT REAL (N-2)
	0004	INTECEMA? STATUS, MAC. DLAL (210), IN (71)
	0006	INTECEMBE TEST (6), 11 (6), ATET
Color of C	0000	.CHA ((11), INA(71), FAN(32)
Control Cont	0010	4.745711.03.03.03 3.745711.70.76.0 TE(2),5TA105,F111.0363
D	0012	* ALL SAV FIRST IA
		F. L. 17E (6,61E)
KRA1		6 ALK* 1 COLARED DEBLO SHITCH
	0017	
1	0019	
D 20E-14.1134.124.134.1319.134.1319.134.131.134.131.134.131.134.134.134.134		FRINEING) FRY
19 CALEL CATE CALE CATE C		CHEST CONTRACTOR DATION FEET PLD TREADONLY FRANCES
19 CAMPAINT CAMP		D2 19 JE1, 200
AMAIL'S 1-30-17 DECK FR' P. FLUZEN 1		
1 CONTINUE 900 FARATALAY ALALY ALALA ALALY ALALA ALA ALALA ALALA ALALA ALALA ALALA ALALA ALALA ALA		FR.3 FLOCEN GG 12 4C0 - A 20 EFF 4.1
900 F3R AT(A4, XA, A1, XA, 14, XA, XA, XA, XA, XA, XA, XA, XA, XA, XA		CHARLE ON CONTRACTOR
D		F 3R. AT (A4, X, A1, X, A1, X, 71A1)
F (F		PITE(6,620.) (57.7.4) 18.4
		IFFATCE EN STATE TO S
F(TST , Fu, 'LIWE!) G0 TP 4(D	035	*54. 'MCAD' 48 18 461
60 T2 1 402	035	.Fu. 'LI.E! G0 TF 405
402 FLAGE GAR 19PUT 401 IF (FLAG FO, 1)FLAGE 1THERE IS MARE DATA, LAAD AND LAAP 4451 IF (FLAG FO, 2) 18 TG A54 162 LAAD 4461 LETTE (15,2027,114 SEG,620Ent 2025 F2R A1(14,12,42) 2019 F8 A1(14,12,42) 2019 F8 A1(14,12,42) 60 TW 1 60	036	12.1
451 IF (FLAG , EQ. 1) FLAGE 2 1742 RE IS MARE DATA, LOAD AND LOOP 4451 DETECTS, 20 20 18 TO 454 162 LOAD 2025 FLAGE 1 2025 FORMAT(14.X.641) 2019 FO MAT(1 '1) 1. AZ, 13, 13) D WRITE(0.2019) 55 G, CC, OTE(1), DTE(2) C GO TO 1 C AUA DECTE(71, 2021, 10A) IN D WRITE(6.622) ATST. 10		FLAG=0
4461 DE: FE (15, 2027, 174 SES, C296 b) 2025 F2R*a1(14, X, 641) 2019 F2 AA1(1 ', 12, A2, 13, 13) 0 WRITE(0.2019) 5F6, C5, 07E(1), CTE(2) 0 F2 TA 1 404 DEC: FE (71, 2021, 174) TA 2021 F2R*a1(711) 0 WRITE(0.622) at 51.16		IF (FLAG FE ST 1)FLAGE STHERE IS MORE
2025 F2F"4114.X.641) 2019 F8 447(('',15,42,13,13) 0 WRITE(0,2019)5F6,02,07E(1),0TE(2) 0 T# 1 DFT GARD LAPUT 404 DECTE(71,2021,144) IN 2021 F2RWAT(7111) 0 WRITE(6,622) ATST.18		DETTE (15, 2020, 14A SEG, C20ENY
C FR MAT(' '1 5,AZ,13,13) C MATTE C C C C C C C C C		
60 Tm 1 404 DEC: FE(71,2021,10A) IN 2021 F28War(711) 5 WRITE(6,622) ats1.10	1	
404 DECTE(71,2021,104) IN 2021 FZRWAT(711) D WRITE(6,622) ATT.10		
2021 F2841(7111) 5 WRITE(6.622) AIST.IN		4 DECTE(71,2021,144) 14
	20	FZEWAT(7111) WRITH 6.4221 ATCT 10.

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C

BRTRAN	IV-PLU	US V02-51 15122118 2C*SEP-79 PAGE 2	
DLABLE	FTM:	/T*IBLZCKS/kR	
047	622	F2-MAT() 1,46,2%,7111)	
043		IX=^	
049		KK=×<+1	
C50		IF KK .GT. 40)KK#40	
051		D3 4041 [=1,71	
C 5 2			
053	4044	IF(1:A(1) ,EQ, ' ',AND, IX ,NE, O) DLBL(IX)=AL+256+BL IF(1:A(1) ,EQ, 1 ') 1X = 0	
<u>054</u> 055	91191	GO T/ 1	
C <u>26</u>	405	FEGORE (59,2)22, II A)LIN. ILE	
C57	2022	Fyir AT(12,19(X;AC))	
658	E1) 6 Z	F/ 70 -=1,19	
U59	·	Kk=K+19+([]H+1)	
060		CFEF (KV)*IFH(V)	
061	70	CA TINGÉ	
062		49 1 8 1	
263	454	CESTINUE	
C64		IF(SEG.FG.G) ST*P ! SEG#0	
065		CALL PUT(SEG, DUBL, CODENT)	
	<u> </u>	TYPE 67. DL3L	
066	67	FZRHAT(1 1,19A3)	
067		WRITE(6.66) SEG, CUTENM. STATUS	
068	68	FPHMAT(! LARELS FAR SEG !, 15, ! HAVE BEEN LOADED FROM CARD!,	
569		! CODE LAME '. DAI. ' STATUS'. 14./) IF (FLAG. EG. 1) ST P 'OK'	
070		IF (FLAG. GE.3) ST.P 'EAU DATA ?'	
£71	 *	Gy T, 12	
072	565	ST AP	
073		END.	
	<u></u>		
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		3~10	

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FZRTRAN CDLANLD	IV-PL	US VG2-54 /T 16LE	CKS/WR	15122	11E 20=	SEP-79	•	PAGE 3						
PREGRAM	SECTI	ons						····						
NUMBER	iiA:1E	SIZ	E		ATTHIEU	TES								
1 2	SPOAT		364 16		Fholoto huscolu									
3	FIRT.		100 409		FhoLoCE	N.LCL	····		***					
6	ANCIL	001120	40		FROLOCE FROCOSV	F.GBL								
	FILNA	M CD0103	32		fik , E , 2 V	F.GBL		·						
VARIABL	ES													
NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
AL	1+2	4-000716	ATST	104	4-001736	BL	1•2	4-001450	BLANK	1+2	4-001436	CADE	102	6-000000
DASH 100	104	4-05 243	FLAG IX	1+2	4-001454	GAG J	1+5	4-001440 4-001446	<u> </u>	102	4-001146 4-001452	KGN	102	7-001456 4-001444
KK SAT	1+2 R+4	4-001442 6-000016	LIN SEG	102	4-001466 4-001136	STATUS	102	4-000714 6-000006	PLUS THE	101	4-001242	0	Re'	2-000642
										_				-
ARRAYS											<u> </u>			
NAME	TYPE	ALURESS	S121	E	1-1MENS1	RHS			··	ORIGINAL	3 }			
CHAR	L+1	4=051244	060013	5	(11)					AL	-			
CODENM DATS	L#1 I#2	4=00 426 6=000a02	040003 200604	3	(6)					P.A.				
DLHL	1.2	4-00 000	366044	210	(216)					AGE				
DTE FAN	<u> </u>	6-90'092 4-001356	<u> </u>	12	(32)				····					
FDN	109	7-36-030	000010	16	(32)				···	S				
FILL FIN	#2 #1	6-905010 7-00-640	000113 000040	36	(36)					PO.	ล์			
lliv	1+4	4-301206	000030	-5	(6)				·	Ř				
ILB	162	4-507646	000046	16	(19)					<u>_</u>	-			
IN ANI	I+2	4-30 720 4-001257	000216 000107	11 35	(71) (71)									
		4-001156		12	(6)		····							
LABELS										 	•	· · · · · · · · · · · · · · · · · · ·		
LABEL	ADDO	SS	LABEL	AUDR	ESS	LABEL	ADDR	ESS	LABEL	ADDR	ESS	LABEL	AUDR	ESS
1	1-00	n 1 7 4	2		•	61		0000	12		0116	19		
671		•	681	3-90	D104	70	•	4	401	1-00	0452	402	1-00	0440
404 622'	1-00	•	415 666		•	9001		1156 004n	20191		•	20201		00456
2021	3-00	0066	20221	3-00	0072	4041		•	4401		•			···

	ERTRAN IV-PLUS VO2-51 15122118 20-SEP-79 PAGE 4
C	DLASLD.FT: /TRIBLECKS/NR
	GETCRD PUT
T	ETAL SPACE ALLECATED = 003566 975
N	e FPP INSTRUCTIONS GENERATED
C	DLAGLD.LP;=CDLAGLD
_	
_	
_	
_	
_	
_	
_	•
_	
	·
_	•
-	3-12
-	

3.3.2 LOAD SPECTRAL VALUES FROM CARD (CDLOAD)

3.3.2.1 Linkage

This program calls GETNAM entry GETCRD, PUT and the private subroutine HEX.

3.3.2.2 Interface

The interface with GETNAM is through the calling arguments.

The interface with PUT is through the calling arguments and through the common blocks ANCIL and FILNAM.

The interface with HEX is through the calling arguments.

3.3.2.3 Input

The input cards are read from the default file FØRC01.DAT. The first card has the code identifier (e.g SWCH1*) in col 1-6. Following is one or more decks generated by the Spectral Unload Utility on ERIPS.

3.3.2.4 Output

The output is a line printer report (fig 3.3.2.4) and new records in the ACA data file.

3.3.2.5 Storage

2599 Bytes

3.3.2.6 Description

The code name is read. Then spectral values are read, translated by HEX from hexidecimal alphanumeric to decimal integer and loaded into 4 arrays. When the arrays are full, they are loaded into the ACA data file by PUT and a new set of values is read.

1									
≈			**						
・)			·					•	
3 F	ORTRAN IV	1-PLUS V02-51	15120132	21-650 30					
C	DLZAD .FT	ME PLACKS / WR	12,50125	21-SEP-79	PAGE 1				
									
)	<u>c</u>	CDLBAD							
•	C	LOADS SPECTA	AL VALUES FRE	M LACIE 9 CARDS					
·	C	11 HEX FURUA	T INTO THE CI)CUS					
_0	001	IMPLICIT TOTEGER	*2 (5=£)						
J 01	002	INCLUSH 'INCLU.F	TNI		· 				
·	• C								
	• 6								
	003 +	INTEGER®2 CHIL	2591.CH2(2051	,CF3(209),CH41209	1				
	004	1117- GEROZ KHIL	25911682(265)	KIBIORGI . KUATONG	,)				
	075 *	BYTE FLAG(21u), FA (32), FE	(32).FIN(32)					
	006 *	IN PERHAP SEG	TATE 2 CETE	STATUS FILL (36)	· · · · · · · · · · · · · · · · · · ·				
	008	INTEGER®S TAG.	IL / WUE DATE	.#!\&},LNG[2] :.STATUS.ETU					
00	309 +	COMMEN JUAT	A/ CH1, CH2, C	+3,6+4					,
	<u> </u>	CAMITY /NAU	TH/ "H1.KH2.K	113,K14					
	011 * 012 *	CHASH ILEMAN		f Ab			^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	013 •	EDUT VALENCE	CAMP FOR FINA), (SLN, FILL (3))			0 H		
_00	014 *	EQUIVALENCE	(SAT.FILL(4)	J. (GAM. FILL FARS)			召開		
• 00	G15 +	EGUTVALENCE	(LAT(1).FILL	(5)) (LNG(1), FILL	(7))		HEPROD ORIGINA	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
. —	• C						23		
	• 6	END INCLUIFTH					A C		
	016	INTEGERAL IN(4,6	COUNM(3)				- 22 -		
0.5	017	BYTE CARD(67)					PAGE		
•	5	-							
	ÿ	9917E(6,99)						·	
)	D	TYPE 99					S O		
	018 9		LFAD	DERUG BN'.	·)		MOON TILL ACC		
	219	CALL SETCEDIF	1FU" FIN. 2)				5⊣		
	520 521 6	HRITE(6,6) F	OPI AB DODAT	£ 05 . 30.41			# ==		
	D	EPENCE ITSI NA	COLLAD UPCAT	TYPE: DLD' ERR#11)		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	رجا	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	722 1	<u>1⊬≃⊊</u>	- 4-1-7-	· The MEN. LEGISLEST'S	•				
	23	CHK=1							
	724 725	SEG=0	·	a sa M				•	
_00		READ(1,3,ERR=66 FRHMAT (3A2)	001E-(F#888) C	RUAN					
	C	10 15 15 15 15 1							
30 €			CHK.EK.1)	CU Te 20					
	28	READI1,1,6484666,	FIND=888) *, X	Y, Z, CARD					
00)29 <u>1</u>	FRRMAT(14,313,67) IF(C RD(65),NE,1)	11 69 90 5						
	C	TA TO MUTOSIANE TA	כ שן עני איז						
12 00		CHK=CHK+1	· 		- 				
11 00		IF(CHK.GT.1) S	TEP IDECK	ENHUR TOR MANY HEA	DER CARDS!				
- 10 0⊖ 000		\$56≠4							
00		IAGEK SL1.=Y							
7_00		DATE(1)=2							
• 00		D 87 I=1,3							
-00						Figure 3.3.2.8			
[3 00	34	D TE(2)=10*CAR	D(1,+UAMD(2)		L	sting for CDLOAD			
							Control of the Contro	3-14	and the second s

FEPTRA	N IV-P	LUS V02-51 15120132 20=5FP-79 PAGE 2		
COLUAD	.FTN	/Titel acks/wr		
P343		D/TE(2)=10+0ATE(2)+CANL(3)		
U041		D7 88 I=1.6		
0042 0043		J=10+1-5		
0044		CH2(1)=HEX(CARD(J), CARE(L+1)) CH2(1)=HEX(CARD(J+2), CARE(L+2))		
6045		CHS(1)=HEX(CAND()+4),CARC(+5))		
0046	8.0	CH4(I)=HEX(CARD(J+6),CARD(+7))		
0047 0043	<u> </u>	G1.T11000 G1.Tv 12		
0049	`` 5	CONTINUE		
0051		THE TOTAL STAF DECK ENTER THE HANY DATA CARDS!		
0052		S-I=c		
0053 0054		D1T=X D2T=Y		
0055		S, 0=5	ਰਸ਼	
0056		1 (SEG.ED. SET. AUD. UIT.EG. DATL(1). AND. D2T.EG. DATE(2)) GB TF 4	RE OR	
0957 0058		1F(SFG,65,0) G0 T0 4	TODAY.	
0059		G8 T2 12		
0660	4	DV 44 1=1.6	<u> </u>	
0061 0662		J=6+5Eu+1 _ k=10+1+9		
0053		16(J. 77.200 .OR. J.LT.1)6K TE 88		
0064		CHILLIEMEX (CARD' K), CARD (K+1)	S. E.	
0065 0056		CH2(J)=HEX(CARD(K+2),CARD(K+2)) CH3(J)=HEX(CARD(K+4),CARD(K+5))	Si 😽	
0067		CH4(J)=HEXTCAHD'N+6), CARE(K+7))	무요	
6900	44	Gratisus		
0069	0 45	F(NUM,E0,5)TYPE 49,5ET,D1T,D2T,GH1(J),GH2(J),GH3(J),GH4(J),J	OF THE POOR	
0070	С	G 72 12		
0071	20	. CENTINUE		
2470	c	HRITE(6.66) SEG.DATE, COLAM		
0072	66 D	FYRMAT(SEGMENT ,, 15. LOTE ',213, LHAS BEEN LEADED ',342)		
0073	22	FORMATC! FUT=1,32A1./,! FIN=1,32A1)		
0074		C/DN4(3)=11+1		
0075 0076		CALL FLT(SER, CHI, CSONM) C103 (3)=12=1		
0077		C.LL PUT(SEG.GH2, CaDNM)		
0078		C20(#(3)=13+1		
0079 0080		CFLL PLT(SEG,Cm3,CuUNH) C°C1√(3)=14+1		
0081		CALL PUT(SE %.CH4.CaDNM)		
0083		NUMEC AND ANTIECO. 66) SEG. DATE. CROWN		
0084		C Kat		
0085		G TO 11		
0086 0087	<u>aad</u> 588			
0088	389	F@B"AT(///)		
0089		STAP ICHU KE CATA NURMALI		

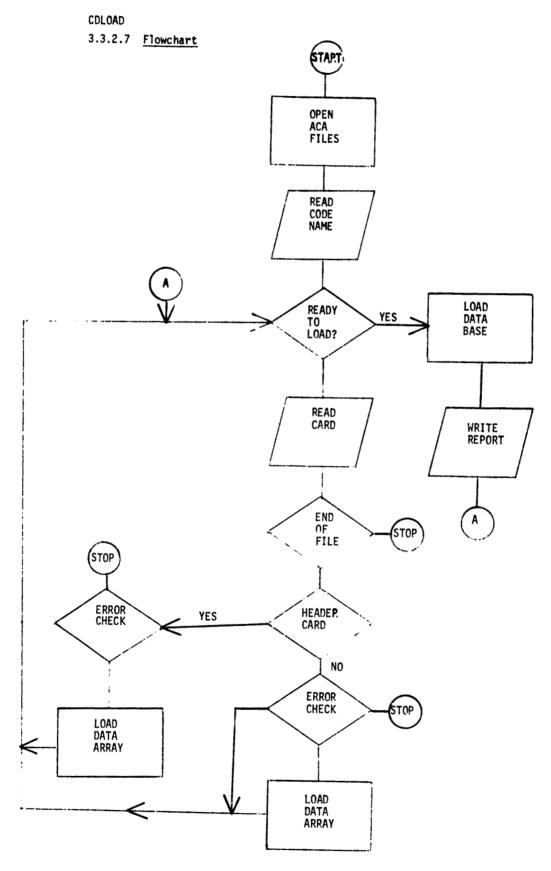
	TA-brn	V02-51		1512	1132 25-	SEP-79	 -	PAGE 3							
DLEAD,	FTN	/T: 15L	CKS/WR												
REGRAM	SECTIO:	45													
NUMBER	NAME	Sia	(E		47717:11					~					
	· V /4 · 1· 5		· E		ATTHIEU	162		•							
1	3Cepe1	331774	510		Fr.1.C0		· · · · · · · · · · · · · · · · · · ·	·							
3	SILATA	00 162 00 252	<u>57</u> 89		Froloce Froloce	N.LCL									
_4	SVAKS	001226	75		IroL.CZ										
5	STERRS	00 674	2		FROCOLE	N.LCL									
7	DATA	000125	4 <u>6</u> 836		Fh. E. i. V	F GRL									
_ <u>ė</u>	KAUTH	003215	£36		FreCarv	F.GRL									
9	FLAG	00.322	105		RHOLOKY	F,GBL				****					
10 -	FILNAIL	000112	49	·	Fheieky	F GPL									
VARIABLE	r S							· · · · · · · · · · · · · · · · · · ·			. ,				
NAME	TYPE A	DDRESS	NATIE	TYPE	ADUALSS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	
СНК	1.2 4	-00n176	CPUE	1+2	6-behenr										
1	102	-20:218	IAG	100	5-000000 5-00002≥	D1T J	1.5	4-000216 4-000212	D21	1•5	4-000220 4-000224	GAH K-N	1=2	6-000032	
NUH	1+2 4	-003174	SAT	1.5	6-LCCU1t	SEG	142	4-000000	SEQ	1.2	4-000222	SET	102	14-000140 4-000214	
SLY Z		-000014 -000206	STATUS	102	9-(fncne	<u> </u>	1+2	4-000200	Χ	102	4-000202	<u> Ÿ</u>	<u>i•</u>	3-000204	
	145 4	700:206			-										
RRAYS				······································		····									
	TYPE A	เออสะรร	\$170		LIMENSI	9 MS									
NAME	TYPE A		\$17	£	[IMERSI	8 NS									
NAME	L+1 '4	-000c7c	000103	33	(67)	e ns									
NAME CARD CH1	Le1 4 1e2 7	-000076 -00 000	000103 000642	33 249	(67) (295)	ENS									
CARD CH1 CH2	L+1 '4 1+2 7 1+2 7	-000076 -00 050 -000642	000103 000642 000642	33 209 259	(67) (295) (205)	€ NS									
CARD CH1 CH2 CH3 CH4	L+1 4 1+2 7 1+2 7 1+2 7 1+2 7	-000070 -00000 -00042 -00504 -00<346	000103 000642 000642 000642 000642	33 249	(67) (295) (205) (205) (205)	ens									
CARD CH1 CH2 CH3 CH4 CPDNM	Le1 4 1-2 7 1-2 7 1-2 7 1-2 7 1-2 7	+000070 +00:050 -000642 +00:514 +00<346 +00:052	000103 000642 000642 000642 000642	33 209 269 299	(67) (295) (205) (205) (205) (205)	ens									
CARD CH1 CH2 CH3 CH4 CPDNM PATE	Le1 4 1-2 7 1-2 7 1-2 7 1-2 7 1-2 4 1-2 6	-000076 -00 000 -000642 -00 514 -00346 -00 052	000103 000642 000642 000642 000642 000006	33 209 269 209 209 209 200	(67) (295) (205) (205) (205) (2) (3)	ens									
CARD CH1 CH2 CH3 CH4 CPDNM	Le1 4 1e2 7 1e2 7 1e2 7 1e2 7 1e2 7 1e2 6 1e2 6	-000076 -000000 -000642 -00544 -00346 -00052 -000000	000103 000642 000642 000642 000642	33 249 259 279 279	(67) (299) (209) (209) (209) (209) (21) (21) (22)	ens									
CARD CH1 GH2 CH4 CPDNM PATE FAN FDN	L+1 4 I+2 7 I+2 7 I+2 7 I+2 7 I+2 6 I+2 6 I+2 6 I+1 10 I+1 10 I+2 6	-000070 -00 050 -00 050 -00 514 -00 346 -00 052 -00 052 -00 052 -00 052	000103 000642 000642 000642 000642 000000 000004	33 249 249 249 279 279 3 2	(67) (299) (209) (209) (209) (20) (31) (2) (32) (32) (32) (36)	2 NS									
CARD CH1 GH2 CH3 GH3 CH4 CPDNM PATE FAN FDN FILL FIN	Le1 4 I = 2 7 I = 2 7 I = 2 7 I = 2 7 I = 2 6 Le1 10 I = 2 6 Le1 10	-000076 -00 050 -00 050 -00 514 -00 346 -00 052 -00 052 -00 0100 -00 100 -00 100 -00 100 -00 100	000103 000642 000642 000642 000042 000004 000044 000040 000040 000040	33 249 249 279 279 2 5 2 16 40	(67) (209) (209) (209) (209) (209) (21) (22) (32) (32) (32) (32)	ens									
NAME CARD CH1 GH2 CH3 CH4 CPDNM PATE FAN FDN FILL FIN FLAG	L+1 4 I+2 7 I+2 7 I+2 7 I+2 7 I+2 6 I+2 10 I+2 6 I+1 10 I+1 10 I+1 9	-000070 -00000 -000042 -000346 -000346 -00000 -00000 -00000 -00000 -00000 -00000	000103 000642 000642 000642 000642 000034 000034 000040 000040 000040	33 249 249 279 279 276 3 46 16 16	(67) (299) (209) (209) (209) (20) (31) (32) (32) (32) (36) (32) (32)	2 NS									
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50 CDLOAD.FTY /THILYCKS/WR 15121117 20-SEP-79 PAGE 5 0001 0002 0003 FU'CTITE HEX(A, H) INTEGERES HEX AA BE AAFAA-160 IF (AA, EG, 120) AA=0 IE (AA, EE, 10) AA=AA=7 HE := 1=100 0004 0005 0006 0007 IF104.EC. "20) 20=0 IF(03.56.10) 30=8'-7 HE:=44*15+84 6000 0009 0010 PETURA 0611 0012 EN REPRODUCIBILITY ORIGINAL PAGE IS 3-18

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NUMBER	NAME	S12E	:		ATTHIEL	ITES		•		····				
1,	SCZDS:		47		RholoCa	AN, LCL								
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TOTAL S	PACS AL INSTRUC LPI±COL	LUCATED =	000144	 -						1.5	4-000802			
TOTAL S	PACS AL INSTRUC LPI±COL	LWCATED * STIMMS SENE	000144	 -						1.5	4-000002			
TOTAL S	PACS AL INSTRUC LPI±COL	LWCATED * STIMMS SENE	000144	 -						1.5	4-000002			
TOTAL S	PACS AL INSTRUC LPI±COL	LWCATED * STIMMS SENE	000144	 -						1.5	4-000002			
TOTAL S	PACS AL INSTRUC LPI±COL	LWCATED * STIMMS SENE	000144	 -						1.5	4-000002			
TOTAL S	PACS AL INSTRUC LPI±COL	LWCATED * STIMMS SENE	000144	 -						102	4-000802			
IDTAL S	PACS AL INSTRUC LPI±COL	LWCATED * STIMMS SENE	ODD144	50						1.5	4-000802			
IDTAL S	PACS AL INSTRUC LPI±COL	LWCATED * STIMMS SENE	ODD144	50						102	4-000802			
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•	COLMAD UPDATE OF 1200.730. TOATA, ACA SEGMENT 1663 DATE 77123 HAS LEE'S LUADED CUSTA*
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3.3.3 DUPLICATE FLAGGING (PURGE)

3.3.3.1 Linkages

Purge calls GETNAM entry GETCRD.

3.3.3.2 Interface

The interface with GETNAM is through the calling arguments.

3.3.3.3 Input

The ACA index and data files as named in FN.DAT are read.

3.3.3.4 Output

Duplicate records in the data file are marked and a Line Printer report (fig. 3.3.3.4) is generated.

3.3.3.5 Storage

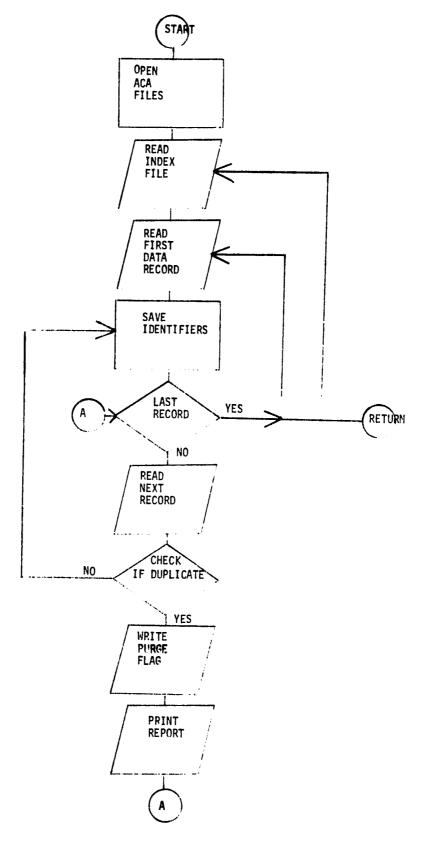
1795 Bytes

3.3.3.6 Description

The records for each segment are searched for duplicates. When a duplicate is found, byte number 254 is set to .TRUE. Otherwise byte 254 is set to .FALSE. Other programs in the system ignore records marked .TRUE.

REPRODUCIBILITY OF THE ORIGINAL PAGE IS FOOR

3.3.3.7 <u>Listing</u>



												11 6	REOR	PRO	D) NA		IBI PA	LI	TY IS	OF P	T)	H B										e) 1	Listing for PURGE
-PLUS V02-51		HYTE CHAR(2) FEW(32) FUN(32) FIN(32)	014E35134 11NDTX(256)	PAGA FIRE TELTONS	PAKA NETER FW FALSE 中のコマントであって、	ECUIVALENCE (S.G. SUF CH(1)) (NAME(1), BUFFER(2))		CALL GETCHD(FA 1,FUN,FIN,1)	KEAN (271 1 32) FEET " FYPE= 12LD" ACCESS*101RECT', EAR*40)	DO 40, KESTINDEX-19- 19PERINDO ACCESSAIDIRECTIVERRADD	5-3-L (21K) 1-3-EX 50: 40, 142,25-6-2	(IAREX(I), EG, 1) GP TE 50	EAF (3) PANEY (1) BIPEL	69 IF 25	RECLST(11N)	4	* (CHar(2) * E. (*) 68 12 29	# 30/FER(2)		RECTOR = 9UFFER(256) GB TB 40	E TE 40	IF (SEGNAFILMER(1-1)) G2 10 37 NEXT RECORD	72 30 72 30	91 9	IF (RECEST(1'4), Ne. EUFER(5)) GB T0 30	30	Ex(4, 20, 1441) 68 48 4	RUPFER (254) #P	GA TA 21	FFR(254) = T	RITE (STRECKE) FUFFER	5 41 NV	PRINT 101, SEG, INDEX (1-1), PRCNø, BUFFER (255), BUFFER (256)
FØHTHAN IV-PLUS PURGE.FIN	0001	000 8	0000 0000	0007	5000 6000	0010 0011	0012		0016	0015	002)	0092	0023			0026	9000		0033 25	0034	1035	0037	0039	1041	0.4 s.	0044 0045		046	049	0051 35	0053	0055 37	9500

PURGE FTN /TRIBLE 15,08145 24-SEP-79 PAGE 2 /TRIALUCKS/WR 0057 101 FORKATEL TROUBLE 1,5187 RILEKIL+1 IF(KIL,UT,100) STAP ' 0058 KILLED BY 100 POINTER ERRORS 0359 0960 SUATTAGE 50 CL/SE (UNIT=2) CL/SE (UNIT=3) ST/P 0061 0062 0063 100 FWAMAT (* THE PECURU NAMED 1, LAZ. FOR SEGMENT 1, 14, * HAS BEEN MAR 0664 0065 F : D0 3-26

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5	FPRAT	A 00 544	18		RKILICO	.LCL								
3 4	SIDAT	A 33 276 995124	95 1322		RA, E, CB									
5	MEMP	995124 S 00 904	Ž		An, L, LU	LCL	· · · · · · · · · · · · · · · · · · ·							
ARIABLE	ES.					· · · · · · · · · · · · · · · · · · ·								
NAME	TYPE	ADDRESS	NAME	TYPE	ADDRES5	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
1	1.5	4-005114	.3	1+2	4-005122	K	1+2	4-005112	KIL	1•2	4-005110	LINDEX		4-00000
Ň	102	4-007116	RECHE	102	4-005120	SEG	1+5	4-001000	NIL	108	4-007118	LINDEX	144	7-00000
RRAYS														
NAME	TYPE	AUDRESS	515	Ė	DIMENSI	RNS				***************************************				
BUFFER	1+2	4=601 010	001000	276	(2>6)						**************************************			
CHAR	L+1	4-001014	030002	1	(2)			· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·
DATE	102	4-001372	700004	2	(2)				· · · · · · · · · · · · · · · · · · ·			·		
FAN FDN	L+1	4-002000 4-002040	000040 000040	10 16	(32) (32)									
FIN	601	4-007100	000043	16	(32)									
INDEX	1+2	4-00-110	001678	276	(256)									
WINDEX		4-0000000	101013	2 6	(256)									
RECLST	102	4=002140	000006 001750	500	(3) (5,100)									
ARELS												· · · · · · · · · · · · · · · · · · ·		
LARFL	ADDR	ESS	LABEL	AUDR	ESS	LAREL	ADDR	ESS	LABEL	ADDR	ESS	LABEL	ADDR	ESS
37	1-00	1056	40	1-00		25 50	1-00		100'	3-00	0652 0024	35 1011	3-00	
LINCT!	uc 400	SUBRAUTIN	ec preso	CMPLD										
-			ES REFER	<u> </u>										
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W FPP	INSTRU	CTIONS GEV	ERATED					·						
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3.3.4 INTERACTIVE QUERY (QUERY)

3.3.4.1 Linkage

This program calls GETNAM.

3.3.4.2 Interface

The interface with GETNAM is through the calling arguments.

3.3.4.3 Input

This program reads the ACA index and data files. Control is from an interactive terminal.

3.3.4.4 Output

The program writes to the interactive terminal. An optional Line Printer report (fig 3.3.4.4) may be generated.

3.3.4.5 Storage

1683 Bytes

3.3.4.6 Description

The ACA file names are requested and the ACA files are opened. The optional line printer flag is set, and a segment number is requested. If the segment is in the data base, the dates are optionally printed. Then a new segment is requested. When setment 9999 is entered, the report is optionally printed and the program stops.

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	5E6	04TE 78117	<u></u>	DECIMAL	- 1AG 45	-11	- <u>SAT</u>	LAT	_
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	1472	7a135 7-216	94:41	*		-5		- ŏ	
	1472	7 243	SWOH1		42	•0	2	ð	
	1472	78252	Suc#1	•	45	-4	٠٠	0	
	1472	74270	Sr H1	•	30	-4	_ 5	0	
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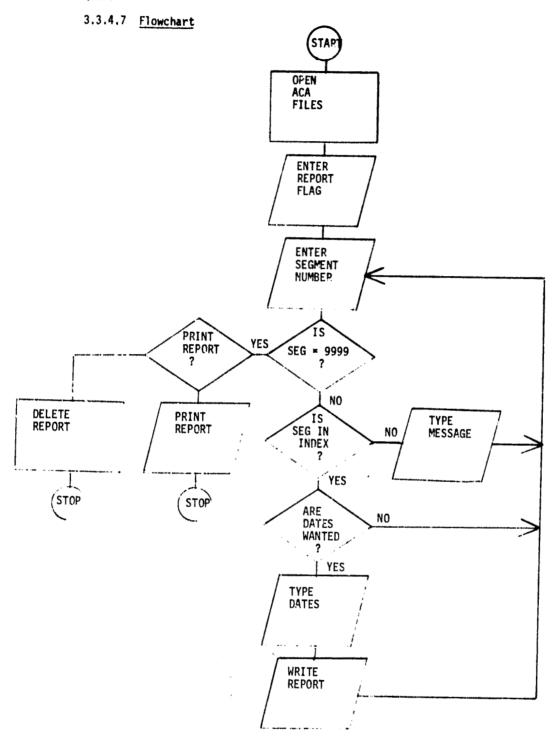
GAMMA FLAG ADDRESS

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0 0 52
0 0 40
0 0 44
0 0 40
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FORTHA	N IV-PLUS V07-51 15119137 20-SEP-79	PAGE 1		
GUERY.	FTIL /TPIBLECKS/WR			
	C DUERY INTERACTIVLY CHECKS DETEATA, ACA FILES	/		
0001	IMPLIGIT INTEGERAL AND			
0002	DIMENSION MINNEY(25).STUF(7).INDEX(256).BUFFE DIM NSION ALSO(2).AUK(9)	R(256)		
0004	HYT 415(14), Ft (32), FIN(32), FAN(32), DOTDA(11)	DETIN(12)		
0005	ovi: II.19, [TST(2)			
0006 0007	EGUTYALENCE (12, 19Film(256)), (STUF(1), BUFFER(1			··
0008	EQUIDATENCE (ANX(1)) QUEFER(219)), (1757(1), STUF	// (7))		
0009	101 CALL GETHAM (FDY,F1+)			
0011	#017E (2,113)			
0011	113 FOR ATC SEG DATE CODE DECIMALS, ING SEG SAT LAT LONG	1.		
	GAPMA FLAG ADERESS!)			
0012	111 C "TINE			
0013 0014	<pre>BPEA(UNITES, NAME=FI*, TYPE= PLD! ACCESS= DIRECT HEAT (3:1) HINDEX</pre>	*#ERK*300)		
0015	TYPE 2-1, LUX, MXR			
0016	201 FAR ATC! 1.16.1 INDEX FILES 1.18.1 DATA FILE	51)		
0017 _0018	OPE (UNIT#4.NAME=FD), TYPE=12LD], ACCESS#1DIRECT	(,ERR=300)		
0019	1002 FARMATCE TOPUT F FER FULL REPORTENT		R LIPRO! ORIGIN	
	P FEE FANTIAL REPORTS		<u> </u>	
0000	N FOR AU REPURTI)		H H	
0020	2002 F2FFAT(A1)			· · · · · · · · · · · · · · · · · · ·
0022	1 CONTINE		DUG	
0023	TYPE 152		IIBI PA	
0024	102 FORMAT(FATER SEGMENT NUMBER (9999 TO STOP) ACCEPT 202, SEG	7 }		· · · · · · · · · · · · · · · · · · ·
0026	252 FR AT(14)			
3027	IF (555.E0,9999) GB T8 666		IS SI	
0029	175#f D0 316,K#3,LLY=1,2	1.1.1		
0039	ÉAC(3'K) IUDÉX		۲۰ کار ا	
0031	DØ 311 J#1,255,2		11 10 10 10 10 10 10 10 10 10 10 10 10 1	
0032 0033	F(INDEX(J), EQ, SEQ) GO TO SO			
0034	311 G211NUE			
0035	310 FE' TINUE			
0036	40 TYPE 10%, SEG	The BOTTMETTA		
0037 0039	104 F2HHAT(///* *** SEG*, 16, * CRES NOT APPEA	d IN nailunex. (\\)		
0039	on Type 176, Seg	***************************************		
0040	106 FZRATII SEGMENTI, 16.1 AFPEARS IN THE DOTI	NDEX!,/		
0041	TYPE Y LOR DATES IN FOR A NEW SEGM ACCEPT 206, IT	ENT')		
0042	206 F2F*4T(A1)			
0045	15 (17, EQ. 191) GW To 1	·		
0044	FIRST=14DEX(U+1) 17=F1RST			
0046	2 CUNTIANE			
0047				
0048	1F(175,GT,100) GØ TØ 777	Pigure 3.3.4.8		
0049	ALSO(2)=Id HEAD(4*IZ)BUFFER			
	HENRY L. SCHOOL LAIR	Listing for CUERY	3-31	

unic 2 V	AN IV-PLUS	US V02-51 15119137 20-SEP-79 PAGE 2	
	(F N	/THIBL TOKS/WR 2005EP079 PAGE 2	
0051 0052		ALSE(1)=PUFFEH(254)	
0653		IFISTOFIA CO LARA TARE	
0054	109	IF(ITST(2), IE, IP) TYPE 109, STUF, ANK(1), ANK(2), ANK(3), ALSB F2FMAT(' ', IG, 213, 444, E16)	
0055		If Clapt co. total control	
0056		F2FMAT(* 1,16,213,444,510) If (IRPT .EG. 'F') LKITE(2,108) STUF, ANK. ALSØ IF (IRPT .EG. 'F') LKITE(2,108) STUF, ANK. ALSØ	
0057	•	MARIEL ZALLEY CILLE AND ALACE	
	•		
0058	108		
0059		FRAMAT(* 1:10,213,442,5%,916,216) IF(IF,E3,FIRST) G2 TE 1	
0060 0061		62 71 2	
7930	605	TYPE 110	
0063	110	FORMAT(//, TO KILL LINEPSINTED & COURT TO THE COURT TO TH	
0064		FORMATIVI, TO KILL LINEPRINTER BUTPUT TYPE NO	
0065	210	FOR MATCALL	
0066 0067		IF(IP.EG. 'N' CR. IHPT.EG. 'N') CLOSE(UNIT=2.DISP= DELETE')	
0068		IF(IP. NE. 'N', AND, IRPT, NE. 'N') CLUSE(UNIT=2, DISP=+DELETE+) C. NSE(UNIT=3)	
0059		Chese (Unit=4)	
0070	7	ST ₂ P	
0071 0072	300	CLASF (UMITES)	•
0073		62 358 (UNIT=4) 62 78 101	
0374	777	TYPE 667	
0375 0376	667	F' R'AT(* **** CHUNT EXCEPTS 400	
0077	999		
		END	·
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неса	SLCTIK VAME	215	E		ATTHIEU	1FS							·	
4	SCODE		501				· · · · · · · · · · · · · · · · · · ·							
3	FLUATA	721246	339		RholoCB PholoCB	N. LCL								
5	STE 405	003224 5 00 602	642 1		RhoLoCO	V'TCT								
ARIABL	LS								······································					
NAME	TYPE	AUDRESS	MAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
FIRST 17		4-003272	Į P	L+1	4-063206	IRPT	1+2	4-003210	ĮT.	L+1	4-003205	ITS	1.2	4-003214
SEG	1+2	4-00:776 4-003212	. <u> </u>	1+4	4-003270		1+2	4-003216	<u> </u>	102	4-001008	MXR	105	4-001002
RRAYS														
NAME	TYPE	ADDRESS	\$13	Ė	DIMENSI	ens	···							
ALSO.		4-103000	000004	2	(2)			·····						
ank Buffer		4-000664 4-00:000	000022 301000	9 256	(\$) (256)									
DOTDA	L+1	4-003156	000013	5	(11)									
FAN FAN	L+1 L+1	4-003171	200014 202042	<u>6</u>	(32)								·	
FDY	1.01	4-003016	<u> </u>	16	(32)									
FIN		4-003056	000040	16	(32)								·	
ITST	1+2 L+1	4-00/500	<u> </u>	256 1	(256)					· · · · ·				
HINDEX	102	4-00 000	061010	256	(256)									
STUF	1+2	4-000000 4-000000	000016 000012	7	(7) (10)									
ABELS			·····											
LASEL	ADDRE	\$\$	LABEL	ACDR	ESS	LABEL	ADDR	ESS	LABEL	ADDR	ESS	LABEL	ADDR	ESS ESS
1	1+000	1240	2	1+00	11674	40	1-00	0510	50	1-00				
1021	3-000	360	104+	3-00	•	1061	3-00		108	3-00		101 1891	1-00 3-00	
110' 206'	3-000		111	7-20		1131	3-00	0000	201'	3-00	0150	245.	3*09	0232
666	3-710 1-011		210' 667'	3-00 3-00	0//2	300 777		<u>1666</u> 1720	310 999			311 10021	3-00	• 0214
20021	3-000										-	4106,	J-00	V
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3.3.5 INITIAL FILE GENERATION (SEED)

3.3.5.1 Linkage

This program calls no subroutines.

3.3.5.2 Interface

None

3.3.5.3 <u>Input</u>

None

3.3.5.4 Output

Seed creates the ACA files SEEDINX.ACA and SEEDATA.ACA.

3.3.5.5 Storage

923 Bytes

3.3.5.6 Description

In order for the CDDDS programs to function there must be preexisting ACA files. SEED creates such files with only one data record having segment number 1, which is marked for deletion.



FBRIKAN IV-PLUS V02-51 SEED.FTN /TKIBL	US V02-51 /T51818CKS/BP	15120114	2L=5EP=79	PAGE 1	
υ	SEE FTH CREAT	SETTE CHES	FOR THE AL ANDER	2 50	
	Reutines FETCH	AND STERE			,
2000	DIM' CSISN INDE	X(256', 3UF (256), INSEG(256)		
0004	DATA INSEG/1	1,254197			
	SPECIOLITAZ NAS CONTRA	1 1 < 00 , 7 3 SEE	LINX, ACA', TYPER!	## ### ###############################	
0007		m="[<30,/35EL	CAIA, ACA', TYPER'	VEW , ACCESS* DIRECT	
0008	•	ä			
0010	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
0012	WRITE (3'1) PUF	<u>-1</u> 4			
0014	GLØSE(UNITES)				
0016	EnD]
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	•			3.3.5.8 Listing for SEED	
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FORTRAN IV-PLUS VOZ-51 151201	14 20-SEP-79	PAGE 2		
SEED. FTN /TRIBLICKS/WR	<u> </u>	- AVE		
PRAGRAM SECTIONS	·			
NUMBER NEME SIZE	ATTRIEUTES			
1 \$GUDE1 000276 95	Rh, 1, CUN, LCL			
2 5PD4T4 00:050 20 3 3ID4TA 000120 40	RL,E,EAN,LCL RL,E,EUN,LCL RL,EUN,LCL			
4 SYARS 003000 768	RH. E. CMA. LCL			
AHRAYS				
NAME TYPE ADDRESS SIZE	DIMENSIONS			
INDEX 1+2 4-000000 001000 256	(256) (256)			
INSEG 1+2 4-002000 001000 2-6	(256)			
FUNCTIONS AND SUBREUTINES REFERENCED				
CLOSS UPENS	· · · · · · · · · · · · · · · · · · ·			
OLUSS DEFIN				
TOTAL SPACE ALLOCATED = 093466 923				
NA FPP INSTRUCTIONS GENERATED				
SEED, LP1=SEEn				

•				
				
		3-38		

3.3.6 TABLE OF CONTENTS (TOC)

3.3.6.1 Linkage

This program calls GETNAM, and also its entry point GETCRD.

3.3.6.2 Interface

The interface with GETNAM is through the calling arguments.

3.3.6.3 Input

This program reads the data file and the index file. GETNAM either reads FN.DAT, or queries the interactive terminal.

3.3.6.4 Output

The output is a listing of all the files in the ACA data base (figure 3.3.6.4). This list is ordered by segment number. In debug mode, only the segment numbers are listed.

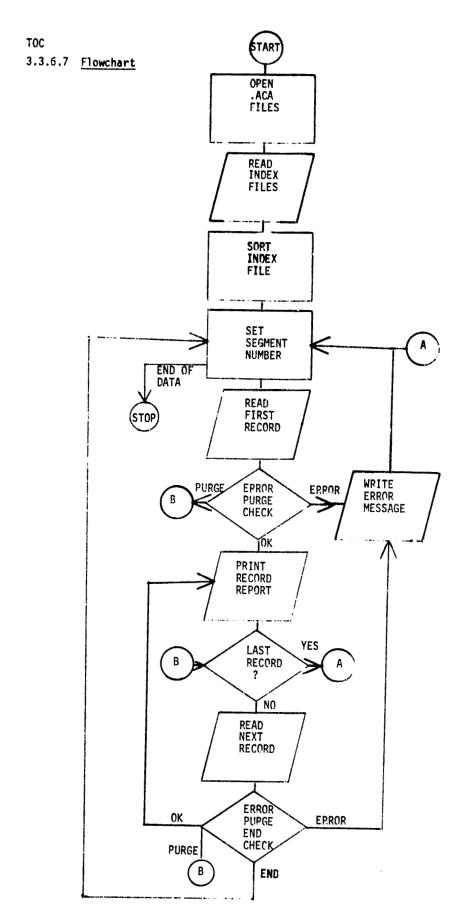
3.3.6.5 Storage

3424 Bytes

3.3.6.6 Description

The program first calls GETCRD, an entry of GETNAM, to get the index and data file names. Then it opens the index and data files. Up to 1024 segment numbers are read in and sorted. Then the data for each segment is read from the data file and written to the line printer.

	•	
ş م	EGMENT 1566 HAS THE FULLBUING RECURUS IN THE DATARAS SHC-4* 78169 2 100	E
,	187-78 0 4 0 8L	
	SHC 1* 78196 3 81	
)	SHCH2* 78106 3 82	
	SRC-3* 7-196 3 E3 SRCH4* 7-196 3 E4	
· >	SWC 1* 78232 3 85	
	SHCH2* 75232 3 86	
2	\$300.34 73232 3 67 \$30.44 78272 3 66	
	SaCill# 78115 2 89	
	5/C 2* 75115 2 90	
9	Sugram 7815 2 91 Sugram 7715 2 92	
·	SHCH1* 78133 2 93	
•	5 10 2 7 133 2 94	
	SVC13* 7e133 2 95 SVC14* 7e133 2 96	
9	5%CH4* 74133 2 96 5%CH1* 78169 2 97	
47	SHC 2* 78169 2 98	
_	SHC 3* 79169 2 99	
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FZRTR	AN TV-PLUS V02-51 15117152 20-SEP-79	PAGE 1	
Tac.F	Th /T : 91. 4CKS/AR	PAGE 1	
0001	PRASHAM TRO		
0002	IMPLICIT PITEGERAL (A-E)		<u> </u>
0003			
0004 _0005	940E SI23 SEGESTE102") 44 201 6TE10244		
0006			
0007	DINE 3124 SUFFCA(256		
6003	EGUIVALENCE (FIGUREX)		
000.9	EUGLACT (MANAGER)		
0010	G LU GETURD (FAMPE VAFINAL)		
CC11			
0012	MPEN CONITERINA HERFIN, TYPER TOLD! FERRE555.		
0013			
0013 0014	READ (211) minuex		
- <del> </del>	ACCESS=:DIRECT:)		·
0015	00 1 . K=3.LTAPEY=1,2		
0016	READ (SIK) INDEX		
0017	D2 10. Ja1.255.2		O #
0019	SEGLST(04+K=192+(.+1)/2)=tupey/14		REPRODU OFIGINAL
0019			H B
0026 0021	DB 509 751974		1 B
0025	IF (SEGLST(J), 95.0) Ga Ta 20		<b>2</b> 8
- 42.6	D TYPE 15.8		[ ]
0023	15 FERMATI TEC. NUMBER OF SEGMENTS -1 143		CIBILITY PAGE IS
0024	BO TH (6)		<b>予</b>
0025	20 CONTINUE -		<u> </u>
0026	30 00 50, k=2,5,1		
0027 0028	F (SEGLST(K),GE,SEGLST(K=1)) GD TO 50		70
0029	L: CLT=LUCLST(K)		OF PO
0030	SECUSION = SECUSION		8:
0C31	CCLST(K)=LACLST(A=1)		THE
0032	IF (M,EQ.2) 02 TO 44		<del>Q</del>
0033	Te 40, M=K=1,2,=1		
0034	IF (Strit.gc.StritST(Mell) ca to 48		
0035	3E4651(4)#3E LST(M=1)		
0 <u>036</u> 003 <i>1</i>	40 LECEST(A)=LECEST(N=1)		
0037 003A	44 M=1 45 SECUSTANIESERIT		
0039	45		
0040	50 CVNTINUE		
	D WHITE(6,53) SEGEST	•	
0041	53 F2KMAT(1 1,2215)		
	D CLUSE(UNIT=0.DISP#'PAINT')		
0042	_U		
0042 0043	54 DE 70, 1=1,k		
0044	PRI.T 1010, SEGLET(I)		
0045	1F(SEGLST(1), LE, 3) GP TR 70		
046	KKatectal(1)		
047	EAC (STRKY) PUFFER	Pigura 2 3 C a	
1048	11 (SEGLST(1),, OFFER(1)) 62 TO 333	Figure 3.3.6.8	
049	CASTINE	Listing for TOC	
050	1F (5UFF#R(254)) GD TA 65		

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TUC.FIR	/T 'tëLUCKS/#R			
0051	PRINT 1020. (HUFFER(J), Jab, 7), EUFFER(2), BUFFER(3	).8UFFER(%21).KKK		<u>-</u>
0052	65			t
0053	KKKaBUFFER(255)			
0054 0055	TEAT (STRAK) SUFFER IF(CEGLST(I).NE, UFFER(1)) 60 TO 333			
1056	172=175+1			
057	IF (ITS, GT. 100) GO TH 70			
1058 1059	70 NTINGE			<del></del>
050	72 71			
061	333 PRINT 3033, SEGLST(1), BLEFER(1), KKK			
0063	3033 FORMAT(1 SEGLST#1.10.1 HUFFER(1)#1.16.1 B	AAD ERROR AT'.16)		
1264	71 PHINT 1050			
065	CLUS (UNIT=2)			
066	CLUSE (UNITES)			
C68	555 CALL GETWAM(FDN.FIN)			
069	Ge 13 5			
070	1010 FERMAT (1H1, ' SEGME'T ', 14, ' HAS THE FOLLOWING R	ECORDS IN THE DAT		·····
071	1020 FORMAT (16x, 3A2, 5x, [5, [5, [6, [6]			
C72	1030 FURN T(///)			· <del></del>
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<u> </u>	ETSEP FILEA		3 48		Fr. E, CUI	R. GOL								POOR THE THE
VARIABLE	à													
NAME	TYPE	ADDRESS	HANE	TYPE	ADURESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
LINDEX	1•2 1•2	4-013014 4-001006	175 LOCKT	102	4-013516 4-61361u	J	102	4-013002 4-013012	K	1.2	4-013000 4-013004	KKK SFGLT	102	4-013886
ARRAYS														
NAHE	TYPE	ADDRESS	SJZ		DIPLOSI	8 45								
BUFFER FAN	I • 2	4-000000 6-J0 173	011000	256 16	(256) (32)									
FDU	4.1	e=00,000	060049	16	(32)									
FIG INDEX	1.2	6-00 34n 4-012000	001050	276	(32)									
LCCLST	1.2	4-00-010	004000	1644	(1:24)									
MI DEX	1.41	4-10-015	001006 990005	2 ⁵ 6 3	(256) (6)									
SEGLST	1.5	4-002500	004000	1024	(1024)									
LARFLS														
LABEL	APHR	ESS	LAEEL	APDR	ESS	LABEL	ADDF	ESS	LABEL	ADDR	ESS	LABEL	ADDR	ESS
5	1-30	0934	13	•		151		•	50	1-00	0362	30		0404
40 54	•		<b>44</b> 69	1=00	0276 1044	45 65		00612 1176	50 70		064? 1322	531 71		1448
333 30331	1-07	1352	555	1-00	1912	10101	3-00	0062		3-00	0160	19301	3-00	0-00
FUNCTIE	NS AND	SUBREUTES	ES REFE	ENCED										
CLESS	SETS	RD GETAAM	APE'IS			<del></del>			<del></del>			<del></del>		
TOTAL SI	PACE A	LLECATED :	115300	3424										
		CTIVES GEA												

#### 3.3.7 TAPE LOAD (TPLOAD)

#### 3.3.7.1 Linkage

TPLOAD calls the entry GETCRD of GETNAM and PUT. In addition several system routines included in QIO are called.

#### 3.3.7.2 Interface

The interface with GETNAM is through the calling arguments.

The interface with PUT is through the calling arguments and through the common block/ANCIL/.

#### 3.3.7.3 Input

One input card is read from the default unit 1 file FØR601.

COL 1-3 Tape drive identifier one of MTO, MT1, XTO, XT1

COL 5-7 Number of segments to be read in, e.g. 999.

COL 10-15 Code name to be used for loading, e.g SECH**.

#### 3.3.7.4 Output

Data is transferred from the tape to the .ACA data base. At the end, a short line printer report is written (fig 3.3.7.4).

# 3.3.7.5 Storage

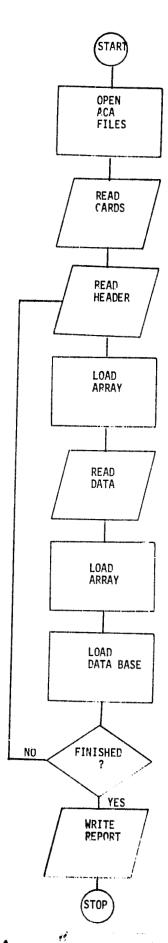
5214 Bytes

#### 3.3.7.6 Description

TPLOAD reads the data for one acquisition from the tape using QIO routines, loads the data into the appropriate array location and PUTS the data into the data base. After all requested data has been loaded, a line printer report is created.

	SPECTHAL DATA	UNLOAD RE	PRRT TPST40		7	PAGE 1 DATE 8/30/7/ TIME 09126128	
·	SEGMENT NO	. YEAR	JULIAN DATE		<del></del>	114E 001501SE	
	112	7à ·	169 187	0	55 14 54 '2		<del></del>
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	112 112	78 78	205 224	0 !	52 ±1 18 ±3	<del></del>	
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# 3.3.7.7 Flowchart



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DOUGH   17   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [17]   [	i		
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0013 E-11-11-12 (ST-M1) 0015 DATA (DXX/LACA-SA-SA-SA-SA-SA-BARA (ALIZALBAS), 2014 0015 DATA (DXX/LACA-SA-SA-SA-SA-SA-BARA (ALIZALBAS), 2015 0015 DATA (DXX/LACA-SA-SA-SA-SA-BARA (ALIZALBAS), 2015 0016 DATA (DXX/LACA-SA-SA-SA-SA-SA-SA-SA-SA-SA-SA-SA-SA-SA	0011		FOR IMALENCE (A(S), F(1))
0014 DATE INVIVENTED STATES ST	0013		ECCLARENCE (ST.M.) ECCLARENCE (ST.M.)
0015 100 F. TATCH-WISEGOTIFHANINE 4017, 1391, 1391, 1391, 1391, 1001, 100 F. TATCH-WISEGOTIFHANINE 4017, 1391, 1391, 1391, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 100	0015		1.0x2/1.21.35.58.77.65.55.54.83.7
10 100 FCF,AT(1h, 4A, 18EG-ENT NG, #1,14,4K, 19EARE; 114,4K, 10 107 FCF,AT(1h, 4A, 18EG-ENT NG, #1,14,4K, 19EARE; 114,4K, 10 107 FCF,AT(1H, 40K, 18EG-ENT NG, #1,14,14K, 19EARE; 12K, 18EG-ENT NG, 18K, 19EARE; 12K, 19EARE; 19EARE; 12K, 19EARE; 12K, 19EAR	0017	100	11460/11HWA6/H2401/1R18/H1
10 107 FERRATCHIA, 404, 18P. 11, 17, 141, 144, 44, 18P. 111, 18P. 11, 18P. 11	0015	105	2.5 A
11	0000	197	4) 4)
100 FRPAR(1445,4%, 144P) T NUMBER 2F FILES TO BE LAADED >1) 110 FREAT(12) 111 FROTEST(12) 112 FRIAN(12) 113 FRIAN(14) 114 FRITE(4) 115 FRIAN(14) 115 FRIAN(14) 116 FRIAN(14) 117 FRIAN(14) 118 FRIAN(14) 119 FRITE(4) 110 FRITE(4) 110 FRITE(4) 111 FRIAN(14) 111 FRITE(4) 112 FRIAN(14) 113 FRIAN(14) 114 FRIAN(14) 115 FRIAN(14) 115 FRIAN(14) 116 FRIAN(14) 117 FRIAN(14) 117 FRIAN(14) 118 MID 118		- 1	EATA UNLBAD RE
110 F2004[12)  12 F2004[12)  13 F2004[12]  14 F2004[14]  15 F2004[14]  16 F2004[14]  17 F2004[14]  18 F2004[14]  18 F2004[14]  19 F2004[14]  10 F2004[14]  1	0022	198	EF FILES TO
5 112 FR. 114197  6 113 FR. 114 160x, 19,6x, 19,6x, 14,6x, 14,6x, 14,  7 114 FEL AT(14 160x, 17) FE ' 12,1/1,12,1/1,12)  8 11 FEL AT(14 160x, 17) FE ' 12,2/1,12,1/1,12)  9	0023 0024	110	A STATE OF THE STA
113 FSF (ANTITH ALGON, TOTE '112, //12, //12, //12)  2	0625	112	2 46X2 1426X2 14.6X2 14.6X 24 4X
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## ## ## ## ## ## ## ## ## ## ## ## ##	0023		CALL CETCRE(FALLETING)
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DRIVERO I O MEAN D IE MYO  MRS  LI CTRESO  CA L IDATE(X,Y,Z)  CA L ASALUM (IPUTATE(X,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z	0031		
LICTRESO  PALED  CALIDATE(X,Y,Z)  CALIDATE(X,Y,Z)  CALIDATE(X,Y,Z)  CALIDATE(X,Y,Z)  CALIDATE(X,Y,Z)  REC(1,100) (A(J),Ja1,9),CDNAPE  REC(1,100) (A(J),Ja1,9),CDNAPE  CALIDATE(X,Y,Z)  F(A(S),EO,TX) MINTE(E,X); X MEANS XI COLIDATE  F(A(S),EO,TY) MINTE(E,X); X MEANS XI COLIDATE  F(A(S),EO,TY) MINTE(E,X); X MEANS XI COLIDATE  CALLASMLW.(Z,TXYFG,ERIVE)  CALLATE(Z,TXYFG,ERIVE)	0033		CAU I O HEAN U IE
CA L IDATE(X,Y,Z)  CA L IDATE(X,Y,Z)  CALL THE(E)  RE C(1,100) (A(J),Jx1,8),CDNAPE  CXII 05 5ECH68  EXAMPLE E FECORDS ON XY1  IF (4(1) FG, 1X') MIXIFC='XY' I X MEANS XY COL 1  IF (4(2) 'E0, 11') MIXIFC='XY' I OR 1 MEANS XY COL 1  IF (4(3) 'E0, 11') MIXIFC='XY' I OR 1 MEANS XY COL 1  IF (4(3) 'E0, 11') MIXIFC='XY' I OR 1 MEANS XY COL 1  IF (4(3) 'E0, 11') MIXIFC='XY' I OR 1 MEANS XY COL 1  IF (4(3) 'E0, 11') MIXIFC='XY I OR 1 MEANS XY COL 1  CALL ASALU: (2, TIXTEG, CRIVE)  CALL ATOROGINAL 'S' I OR 1 OR	0035		CTRESO
CALL TIME(E)  RE C(1,100) (A(J), JR1, 0), CDNAPE  RE C(1,100) (A(J), JR1, 0), CDNAPE  IN (LOCAL) EQ. (X') MIXTEC XII I WE ANS XI COL 1  IN (A(1) EQ. (1') MIXTEC XII I WE 1 HEANS XI COL 1  IN (A(3) EQ. (1') MIXTEC XII I WE 1 HEANS XI COL 1  IN (A(3) EQ. (1') MIXTEC XII I WE 1 HEANS XI COL 1  CALL ASALU: (2, TIXTEQ, CRIVE)  CALL ATOLC(IM, JR, 1, 51)  DO 20 Rail TOTO (IM, JR, 1, 51)  CALL ATOLC(IM, JR, 1, 51)	0037		CA L IDATE(X, Y, Z)
	0039		CALL TIME(E) RE C(1,130) (A(J),J=1,0),CDNAME
	0040	4	65 SECHOO EXAMPLE SECORDS ON
F (A (3) , EQ, 11') ; A   VE = 1   CQL 3   CALL ASALUA (2, FTXFE)   3   E   E   T   CAL SALUA (2, FTXFE)   2   E   E   T   CAL SALUA (2, FTXFE)   2   E   E   T   E   E   E   E   E   E   E	0041		TO TY NIKEGENT I WHENS XT COL
CALL ASALUT (2, TTXTEG, ERIVE)  GALL ATGIZ(IATCH 211, ST)  CALL ATGIZ(IATCH 2211, ST)  CALL GETAD (1FTH 9UFF1)  CALL GETAD (1FTH 9UFF1)  CALL ATGIZ(IML, 2211, ST, 1F MP)  CALL ATGIZ(IML, 2211, ST, 1F MP)  CALL ATGIZ(IML, 2211, ST, 1F MP)	0043	•	(A(3) ,EQ, 11:) ; Alves1 1 CQL 3
CALL #TOTOCITRE DESIGNATION OF TAXABLE DE PARTICION DOFFIA DOPFIA DOPPIA	0044 0045		(2) TXTEG LRIVE)
CALL GETAIN (Pring BUFFI)  CALL WING (INT., 2,1,151,1FRP)  CALL WING (INT., 2,1,151,1FRP)  678 F RMAT(**, 2,5,4)	0046 0047		CALL
CALL WIGGING, 2,1,,5T,1FRP) CALL WIGGING, 1(K), n=2(U1,2400) 678 F RMAT(' ',2554)	0048		CALL
678 F RMAT(1 1,2554)	0020		262 *(IML',2,1,451,18 RP)
	0051	678	RMAT(" 1,2554)

							REOR	PRO IGI	ODU	P	AG	ITY E IS	OF P(	TH														
11 US VOR-51 15121124 20-5EP-79 PAGE 2	##ITE(6,679) ##EFI F 14T()	3 3	지그	AA(30)=80F1(67)=0177	IF (AE (30) - LT 0) - A (30) = EUF 1 (67)	# (1) = 10 F (1 (6 0) = 117 / F (1 (6 0) = 127 / F	SEC. 3=206*A(30)*AA(31)	TYP: 544,556.	TYPE 544FILE(2) 15U'S ANGLE FOR ATTEN		SMIT TOOLS A	TYPE 544, FILL (3) FILL (5) #151	TYPE 542,FILL(5)	F ( Pr AT ( 4.24)	FILL(6)=100#34(3)+10#AA(4)+AA(5) ILATITUDE DEGREES	TYPE 544,FILL(7)	19 (8) FF1(2140)+#32-FC-#10) FILL(8)=ECF	TYPE 542.FILL(6)	544,F [LI	F w'AT (A13, 12, A1, 13, 12)	A(1)=((F1(22-9)+"20 A(2)=(UFI(22-0)+"20	TYPE 544, EATU(1)		)#1.0F14(2/53)+#2C	,	72	PRIFIL (3, XX)=[0.TE(°)] PRIFIL (4, XX)=FILL(±)	PRIFIL (5, XX)=FILL(2)
FERREN IV-PLUS	) 0052 C	t	C 0056		) 0060 0061	0063	0064	0065	006e 544	٠	0068	0069	0071 5.32		0674	0075	0076	0078	ບບ	0079 543 0050	0061 0062	C C C C C C C C C C C C C C C C C C C	0084	3 0686	00e7		0091 0091 0093	7,47

PAGE 3																														
FYRTRAW IV-PLUS VO2-51 TPLANU,FTX /TETALOCKS/WP 15:21124 20=SEP-79	٠,	PPR(2)=1260	KL - 12 . 1	1Ph : (1) = 1	201 COTT 3E	_~	K=10.3/2(9)	GE2 (K) = B19F2 (J)	CE (4) = B: (F) (4) 38)	Ja. 4.1		10 GE 11:UE (11.0x2(F) +19)) GR 10 1	٦.	CPN.L. APLICATION CHI. CONATE.	CALL PUT(SEGIA, CH2, CONAME)			50 CZRIILE NGINCIAAND.2.1ST		ای .		31 LINCTRED		WRITE(6,114) K.Y.Z	381 FE (6, 109)	3155 Controls	2	MR 7E(6,104)	CZW	
TPLAND, FTS	0093	0095	7660	9600	0100	0101	0103	0165	0107	C108	0110	1110	6113	6114	6115 0115	0117	0119	0121	0123	0124	0125	0127	0129	0131	0132	01.55	0135	0137	0138	

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	PAGE 4							ADDRESS	4-020600	4-120552	4-020574														,			
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•	15121124 264	ATTATEUTES	Fk , I , Cap	Phol. s Con	HA COCON LOL	FALLOZVE, GRL RALLOZVE, GRL		ADDRESS	000730-0	4 020 CO4	0-00000		DIMENS 18 NS	(€)	(35)	(1500)	(3)	(502)	(502)	(2)	(4)	(35)	(35)	(32)	111	(6)	(2)	
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<u>:</u>	V02-51 /T-19Lec <s mr<="" td=""><td>SIEE</td><td>651</td><td>17</td><td></td><td></td><td></td><td>E V V</td><td>101 P</td><td></td><td></td><td></td><td>· Is</td><td>110001</td><td>005764</td><td>000354</td><td>0.0000</td><td>500042 000642</td><td>000642</td><td>0000014</td><td>00ne13</td><td>100040</td><td>950113</td><td>000000000000000000000000000000000000000</td><td>00000</td><td>000014 064540</td><td>* 10000</td><td></td></s>	SIEE	651	17				E V V	101 P				· Is	110001	005764	000354	0.0000	500042 000642	000642	0000014	00ne13	100040	950113	000000000000000000000000000000000000000	00000	000014 064540	* 10000	
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LABEL	ADJRESS	LAGEL	ADDHESS	LABEL	ADDRESS	LABEL	ADDRESS	LABEL	ADDRESS	
1	1-001472	61	3-090264	10	••	20		30	1-001734	
31	1-002116	32	17012004	35	••	100'	3-000000	1041	3-000010	···
1051		1971	3-030020	108*	44	1091	3-000104	1201	••	
111' 545'	3-000156	112' 542'	3-010162	113' 543'	3-000216	114' 544'	3-000244	391 617		
675'	• •	679'	**	721'	••	3355	1-002352			
<u>FUNCTIA</u>	NS JWD SUBREL	TIMES REFER	ENCED							
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#### 3.3.8 DATA BASE REBUILD (XFER)

# 3.3.8.1 Linakge

XFER calls GETNAM's entry point GETCRD.

# 3.3.8.2 Interface

The interface with GETNAM is through calling arguments only.

# 3.3.8.3 <u>Input</u>

The ACA dat file specified in FN.DAT is read.

# 3.3.8.4 Output

All data records in the data file except those marked for deletion (byte 254 set .TRUE.) are entered into the new data base SEEDINX.ACA, SEEDATA.ACA.

A small report is generated (fig. 3.3.8.4)

# 3.3.8.5 Storage

2198 Bytes

#### 3.3.8.6 Description

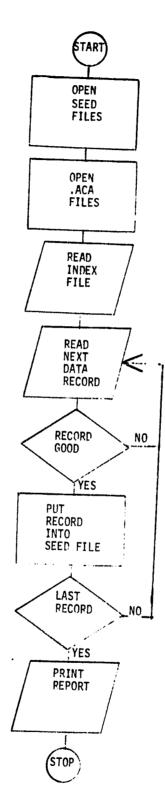
The ACA data file is read directly and sequentially. If the segment is marked for deletion, (byte 254 set .TRUE.) the next record is read. Otherwise statements copied from PUT are used to enter the record into the SEED files.

If a new smaller data base is required based on factors other than duplication, line 28 of the listing is the place to insert the logic.

ETIE 1200 TEDMIDATA AFA LAR JEEN VERED	
FILE [200,73DWIDATA,ACA HAS HEEN XFRED  100 RECURDS SHAULD HAVE BEEN REAM  1 RECURDS WERE DELETED  100 RECURDS WERE SAVED	
1 RECURSOR WERE DELETED	
100 MECONO MENE SYVED	
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13.

# 3.3.8.7 Flowchart



~~ Franks		•
XFFH.FT	N 1V-PLUS V02-51 13100102 25-SEP-79 PAGE 1	·
	C XFER MCDIFIED STEED	
0001	IPPLICIT INTEGERAL (net)	
0503	DIEC STAN TOPE (CREAT DECCES)	
0004	Direction Tobek(256) (alffer(250) ANNNNN(256) MINDEX(256)	
0005 0000	DITESTAY NAME (3) (42) YADOON	
0007	PARA ETER T.T.J., F., FALSE, EWIT ALTOE (HINEA(-), LINTEX), (MINDEX(2), MAXREC)	
000ā 0009	6.00: Authors 1 of North 111 20 P. P.	
0010	COMM . VANCILYCOTE D TE (2) STATES, FILL (36)  COMM . VEILMANFOLD TO (2) STATES, FILL (36)	
0011	VATA FILL/36a0/	
0012 0013	PATA FAVIXIATELATELATELATELATELATELATE	
0014		
	PPEC ( FAITE 7, VANFE 1 [ 200, 7] SEED INX, ACAT, TYPE = 10LDT, ACCT SS=1,11 (CCT1, EMR=2)	
0015	SPEA (1:17=0, NA44==1 DJ./15cECATA ACAI PMOS-10:01	
0016	CALL GETCHD(FA: FD: 4, TIN; 1)	KRPR ORIGI
0517	BPEN (1 IT=5,10 a st I alyte=1010) Acress-Integral Con-	<b>2</b> 6
0018	HEAD(ALY) HEAD(311) NINDEX	<u> </u>
0019	KKK=1.1.EX(S)	NA NA
0030	D TYPE 310, KKK	
0921	310 F2 (1AT(1 4KK 1+18) CL25E(UNIT=3)	P. H.
0022	PPFN (ONITES, NAME = FUN. TYPE = TO DIACCESCO DIDEOTE	
	* ACADSALY)	PAGE IS
	D KKF±10°	TS C
0023	D TYPE 301 301 FORMATC! XFR DEBUG FILES BREN	P E
0024	SOI FERMAT( XFR DEBUG FILES RPEN )	OF THE
0025	De 1 KKEL KRIK	<u> </u>
0626 0627	READ(A'KK) NEWHOF IF(HE HRUF(254)) KHEJ≖KREJ+1	
0028	11 (N) n (f (254)) 32 T 1	
0029 0030	READ(711) MINDEX	
	MAXR: C="Axrec+1 D TYPE 302 maxrec	
0031	302 FERMATO MAXREC # 1416)	
0032	G SEARCH THE INDEX FOR THE SEGMENT AUMODO	
0033	DE 2: K=3,LINDEX+1,2 PRAT (7'K) INGEX	
0034	01 20, J=1,255,2	
0035 0036	IF (INDEX(J), EQ, U) G2 TV 40 IF (INDEX(J), EQ, SEG) G0 T2 50	
0637	20 C2-1149E	
	C ADD A PAGE TO THE INJEX	
0038 0039	K#L1MBEX+1	
0043	D2 30, 1=1,256	•
0041	30 knEx(1)=0	
0042	DEL CONTROL THE FIRST RECORD FUR A SEGMENT NUMBER	
0043	40 INDE (J)=SEG	
	Figure 3.3.8.8	

*5	₩ URTHA	NO TV-PLUS V02-51 13100102 25=SEP-79 PAGE 2
	۲.	U. TYPE 303, SEG
•	0044 0045	303
>	0046 0047	NEWD F(255)=HAYREC
•	0C4E	WRITE (8'HAXREC) NEW UF
	0049	311 F2FH47(1 MAXREC A 1,18)
ر. وري	0050	GU T' CO G WRITE ANOTHER FECURD FOR THE SEGMENT NUMBER
"دع	0051	D TYPE 304, SFG
5	0053	304 F 25MAT(* SEG IS 'AICA! AT 50:3
107		READ (GINEXT) TUFFER
•	0054	D TYPE 312, MAXREC C 1,18;
•	0055 0056	LAST=3UFFER(255) NEWBUF(255)=LAST
•	0057	NEWS F(256)=NEXT
	0053 0059	HRITE (SIMAXRED) NEWUR READ (SILAST) SHENNE
	0060 0061	NNNNY(256)=MAYREC HRITE (8'LAST) NUMBER
•	0062 0063	BUFFIR(255)=MAXREC
•	0064	WRITE (PINEXT) QUFFER INDEX(J+1)=MAXREC
•	0065	60 Walte (7'1) MINDEX D Type 306, MAXReC
	0066 0067	306 F2RFAT() A] 60 MAXRECH1,18) WRITE (712) MINDEX
•	0068	WRITE (7'K) INDEX
	0069 0070	WRITE 17 1K+1) TROEX  1 G.NTIPUE
•	0071	D TYPE 307, MAXREC SONTINUE MAXRECE! (8)
	0072	2 CONTINUE CLASE (U-17=7)
	0074	CLMSF (UNITER)
•	0075 0076	CLOSE (UNITEA) CLOSE (UNITEA)
	0077 0078	ARITE(6,100) FDA,KKK,KREJ,MAXHEC 100 FAR'AT(///,! FILE 1,52A1,! MAS BEEN XFRED!,/
		16. RECARDS SHOULL HAVE REEN READ!
•	0070	16. RECARDS WERE SAVED!)
•	0079	ST*P END
12		
<b>1</b> 11.		
10		
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4		
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NUMBER NAME SIZE ATTRIBUTES  1 \$30001 001550 430	
2 3FCATA 00 054 22 Rh.C.LDN.LCL 3 5IDATA 00 452 149 Fh.E.LDN.LCL 4 \$VAPS 005672 1591 Fh.L.LDN.LCL 5 5TCPS 00-014 2 Rh.L.LDN.LCL 6 AACIL 990120 40 Rh.L.LDN.GBL 7 FILVAM 00 140 48 Rh.L.YVR.GBL  VARIABLES  NAME TYPE ADDRESS NAME TY	4-005660
3 \$10ATA 00 452 149 FW.E.CHA, LCL 4 \$VAPS 005672 1511 FW.E.CHA, LCL 5 \$TEMPS 00.004 2 RK.E.CHA, LCL 6 ANCIL 000120 40 FW.E.CHA, LCL 7 FILVAM 00 140 48 FW.E.YVR, GBL  ARTABLES  NAME TYPE ADDRESS NAME TYPE ADTRESS NAME TYPE ADDRESS NAME TYPE ADDRES	4-005660
4 NVAPS 005672 1591	4-005660
6 ARCIL 000120 40 RN, L, EVR, GBL 7 FILVAM 00 140 40 RN, L, EVR, GBL  ARIABLES  NAME TYPE ADDRESS NAME	4-005660
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#### 3.4 SUBROUTINES FOR LANDSAT DATA MANIPULATION

### 3.4.1 SATELLITE CALIBRATION (CALIB(SAT, NUM))

# 3.4.1.1 Linkage

Subroutine CALIB does not call any other subroutine.

#### 3.4.1.2 Interface

The calling arguments are the satellite identifier (SAT) and the number of points to be processed, (NUM).

4-channel LANDSAT data is passed through the common block /DATA/.

#### 3.4.1.3 Input

N.A.

### 3.4.1.4 Output

N.A.

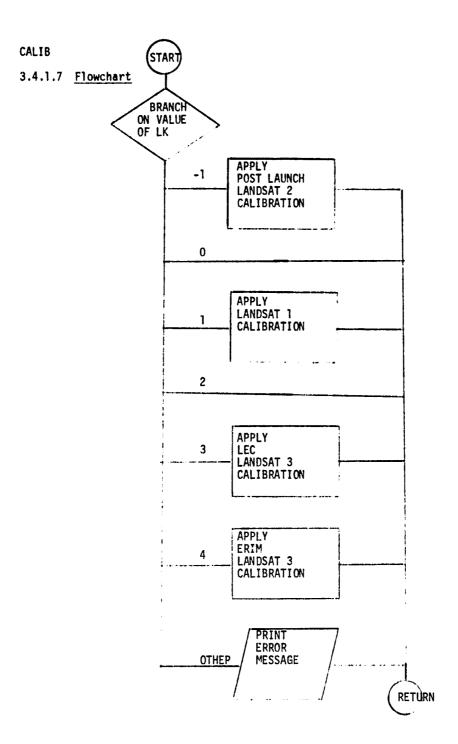
### 3.4.1.5 Storage

1025 Bytes

#### 3.4.1.6 Description

The program recalibrates the contents of the common block /DATA/ to the LANDSAT 2 pre-launch calibration.

Desired recalibration	Sat identifie
LANDSAT 2 Post launch	-1
No correction	0
LANDSAT 1	1
LANDSAT 2 Prelaunch	2
LANDSAT 3 (Lockheed version)	3
LANDSAT 3 (ERIM version)	4



ز	
$\gamma$	FØRTRAN IV-PLUS VOZ-51 15125135 20-SEP-79 PAGE 1
	FURTRAN IV-PLUS V02-51 15125135 2U-SEP-79 PAGE 1 CALIB.FIN /TRIFLECKS/NR
_	
<b>つ</b> .	C CALIB APPLIES CALIPRATIEN CONSTANTS TO DET DATA
	C LK==1 F?R PISTLAUNCH LAPLSAT 2
7.	C LKS D FOR WY COURSECTION C SKS 1 FOR LANDS: T 1 C/LIBRATION
•	G 132 FOR PRELATION LANDSAT 2 (NO CORRECTION)
ا بي	C K= 3 FUR LEG L RUSAT 3 CALIERATION
*C,	C LKE 4 FOR EPIM LANDSAT 3 CALIBRATION
	0001 SUB ZUTINE CALIF(LKIN) 0002 INPLICIT INTEGER+2 (A-S)
13	0002
	0204 REAL CALFEC(4.4), CA HAS(4.4)
	0005 C3MTeN /DATA/ CH1.C 2.CH3.CH4
0	9006 DAT: CALFAC/1.040.1.090.1.09C.0.620.
	1,275,1,141,1,696,0,548,
D	1,141,11230,1,246,1,662,
8.J	1.137.1:175.1.247.1.126/ 0507 DAT4 CALBAS/-5.74J, 1.1902,910, 3.010.
	* -1.445,-2,/12,-2,55C, 0.446,
<b>D</b> .	0.0 .0.0 .0.0 .0.0
	• 0,0 1 0,0 , 0,0 /
•	D TYPE 1-LK D TYPE 2-CALMASCALEASCALEASCALEASCALEASCALEASCALEA CALSAGGALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCALEASCAL
	D TYPE 2.CALBAS(1,LK),CALBAS(2,LK),CALFAC(1,LK),CALFAC(2,LK) 0008 2 F#RMAT(1 CALIB 6:A CHECK1,4F8,3)
	0009 1 FARMAT( CALIE SATE , 14)
	0010 IF(LK.EO.2) RETUR" I LACIE PHE-LAUNCH CALIBRATION
	UU11 IF(LK /SG, 0) RETURN ! C MEANS SATELLITE IT NOT FOUND
<b>B</b>	0012 JF(LK EG. +1) LK=2 : +1 HEANS LANDSAT 2 PØST LAUNCH CALIRRATION 0013 J (LK,LT.1 .7R. L*.GT.4) MELLE(6.1) LK
	0013 I (LK.LT.1 .7R, LK.GT.4) HEILER LK (014) LK (014) LK (014) LF (014) HEILER LF (014) HEILE
	0015 L3 00 l=1, N
<b>9</b> .	[016 CH1(1)=0.5+CH1(1)+CALFAC(1,LK)+CALHAS(1,LK)
	0017 CH2(1)#0,5+CH2(1)+C5LFAC(2,LK)+CALBAS(2,LK)
•	0016 CH3(1)=0.5+CH3(1)+C LFAC(3,LK)+CALBAS(3,LK) 0019 CH4(1)=0.5+CH4(1)+CALFAC(4,LK)+CALBAS(4,LK)
	0019 CH4(1)±0.5+CH4(1)*CALFAC(4,LK)*GALBAS(4,LK) 0020 100 CC:TIUUE
•	0021 RETURN
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<b>,</b>	Figure 3.4.1,8
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<b>.</b>	Listing for CALIB
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CALFAC	R#4	4-20 010	000100	32	(4,4)										950
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3.4.2 DATE CONVERSION (DDATE (YEAR, MONTH, DAY, YY, DDD, MK))

#### 3.4.2.1 Linkage

DDATE calls no other program.

# 3.4.2.2 Interface

All information is passed through the calling arguments, e.g. YEAR = 1979, MONTH = 'JAN' DAY = 1, YY = 79, DDD = 001.

# 3.4.2.3 Input

None

### 3.4.2.4 Output

None

# 3.4.2.5 Storage

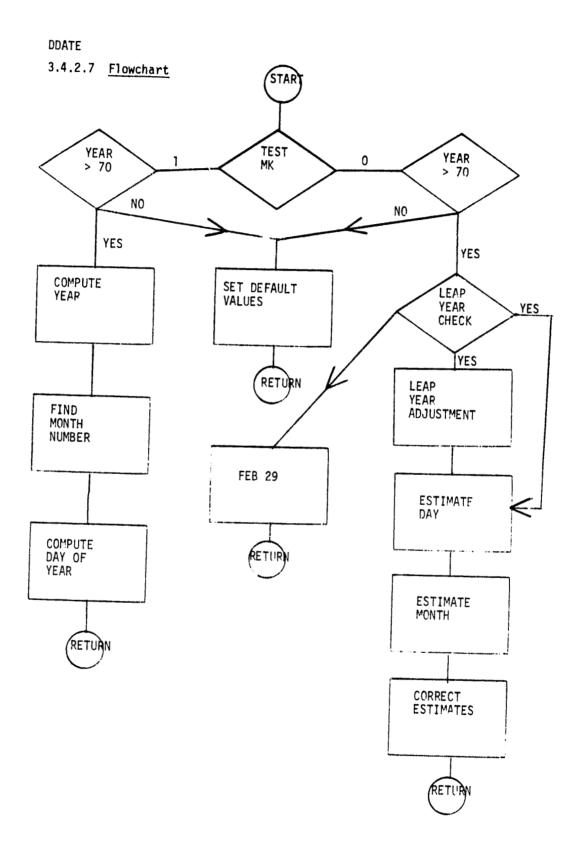
437 Bytes

#### 3.4.2.6 Description

For MK = 0, DDATE converts Julian dates to calendar dates, i.e. 79001 1979, Jan, 1

For MK = 1 DDATE converts calendar dates to Julian dates, i.e, 1979, Jan, 1 79001

The permitted values for MONTH are 'JAN', 'FEB', 'MAR', 'APR', 'MAY', 'JUN', 'JUL', 'AUG', 'SEP', 'OCT', 'NOV', 'DEC'.



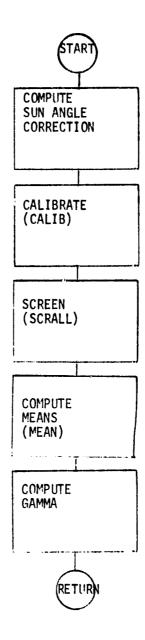
FØRTKA Ddate.	NN IV-PLUS VO2-5: 15128;12 20-SEP-79 PAGE 1 FIN /THIMLPCKS/HR	
	C COATE CONVERTS FROM AND TO YEAR, MENTH, DAY / YYDDD	· ;
0001	FURRYUTINE DDATE: YEAH, FRATH, DAY, YY, DDD, MK)	
	C MKEG YYDDU IN YEAK, MENTH, DAY	
0002	C MARI YEARINGHILLY IS YYDDD	
0003	INTEGEROA YEARAMMATHADAY	
0004	LATEGER® YY.DOD	
0005	INTEGER 4 Mg(15), FRASL(12), EUG(13)	, <u>, , , , , , , , , , , , , , , , , , </u>
0005	DATA MOZIJAHI, "FIR", "MAR", "APR", "MAY", "JUN", "JUL"	
0007	* ,'AUG','SSP','UCT','NDV','DEC','ERR'/	•
6000	NATA BUG/0. e1.1. 1.01123445/ LATA FHARL/31, 20,31, 30,31, 30,31,30,31,30,31/	
	C	<b>교 및</b>
0009	1F(Mk,EQ,1)60 TA 1	Q Z
0010	IF(YY LT. 70) GO TO PAU	ORIGINAL PROPERTY OF THE PROPE
0011 0012	IF(%K,\E,0)RETUP" LY=>0(YY,4)	<b>P</b> CC
0013	IF (LY.EQ. n. A 40. DDD . cQ.59) GE TO 2	
0014	IF(Ev.Fo.C.A.D.ODD.GT.59)DED=DED=1	R DI
0015	DAY=MVD(LNL,30)	E S CELLY
0016	MY: Tk=1+(EU)/30)	हिन्नु
0017 0019	DAY=DAY+NUG(1)ph)	<b>5</b> 0
0019	IF(DAY, LE, D) DAY=DAY+FRAGL(FUNTH)	
0020	1 (DAY FU. 22. AND MANTH. EC. 2) GU TO 3	
0021	IF(#R"TH.LE.12."ND.MONTH.GE.1)MONTHOMO(MONTH)	88
0022	YEAR=1900+YY	
0023	IF(LY,EG.0,AND,UND,GE,>9)[UD=UUD+1	
0024 0025	2 MPNTH=MM(2)	
0025		
0027	PETUA"	
0028	3 M & [4=M0(3)	
0029	DAY=1	
0630	C RETURN	
0031	1 IF (YEAR .LT. 1970) GU TU BEB	
0032	LY= 10D(YEAR. 4)	
0033	YY=~2D(YEAR,100)	
0034	MatT∎0	
0035 0036	D 4 121.12	
0036 0037	1F(MMNTH, FQ, MM(1)) MUT=1 4	
0638	IF ( 27.EQ.0) 637=13	
0639	POSTMENS (POT)	
004C	IF(LY,EO,G,AMD,MAT,GT,Z) EAY*CAY+1	
0241	IF (4AT, FO. 1) NOUNCYAY	
0042 0543	I' (MVT.GT.1) DDD=(MVT-1)=3G-EUG(MVT)=DAY IF(LY,FG.G.AMD.D'D.GT.55) DAY=DAY=1	
0044	RETURN	
0045	BAB DAYED	<u> </u>
0046	707=0 Figure 3.4.2.8	
0047	TAKELY IC	
0048 0049	YY=73 Listing for DDATE	
0050	RETURN	
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4	TVARS		79		Rhelecon										
NTRY P	PEINTS														
NAME	TYPE	ADURESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	
DDATE		1-000000													
AFIAUL	15														
NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	
DAY	1#4	F-0000006	מחם	1•2	1-0000120	,	1+2	4-000234	LY	1+2	4-000230	MS	1 • 2	F-0000144	
HEVTH		F-000004+	MUT	102	4-000232	YEAR	104	F-000002+		1+2	F-000010+	_n·			t
ARRAYS															
NAME	TYPE	AUDRESS	\$17	'E	DIMENSI	INS									_0.2Z
80G	1 * 4	4-000144	000064	26	(13)										REPROD ORIGIN
FNAGL	1 • 4	4-00:064	000060	24	(12)						<u> </u>				30
Ми	104	4-00:000	000064	- 26	(13)										FC
ABELS															- FO CA
			44.54		ren	4 . 05.									- BE
FYRET'	ADDF	.F22	LAHEL	ADDH	122	LABEL	ADDR	F22	LABEL	ADDR	F22	LABEL	AUDR	SEà2	BHITTE
1	1-00	0626	5	1-00	10>32	3	1-00	0570	4	•	•	848	1-00	1210	10 OF
UNCTIA	INS AND	SUBRZUTIN	ES REFEH	ENCED											813
9046					·										
TOTAL 9	SPACE A	LLECATED =	001552	437											
		CTIONS GEN							-						
DATE,L			•										MAT I	ALCOND.	·
										(CO)	HO PAGE		HUI	,	
·								3-68							

-

3.4.3.7 Flowchart



FERTRAN IV-PLUS V02-51 15126153 25-650 35	
GAMMA,FTN /TEIRLECKS/NR 151261>3 ZCHSEP-79 PAGE 1	
C GAMMA, FT (s	
C	
G GAMMA AZAPUTES THE XSTAR BYTICAL LEFTH PARAMETER GAMMA G IAG IS SUN ELEVATI. V ANGLE IN DEGREES	
GMA IS THE MAZE PARAMETER OF THE BEGREES	
OCO3 IN LUDE INCLUETA.	
• C	
• 6	oë
	98
0004 + INTEREME2 CH1(209), Ch2(209), Ch3(209), Ch4(209)	6 %
THE FLAG(210) FA (20) KH4(209)	豆 三
0008 • INTEGER 2 250, DATE 2), LAGE, STATES, FILL (36)	20
0008 • INTEREFOR LANGUES, SLN, AT, GAM, LAT(2), LNG(2)	ORIGINAL PROJUCULA
OCTO COME CONTROL OF C	V S
	23
OGA -	BACK IS BOOK THE
	3 .9.
DO14 • EQUIVALENCE (IAS, FILL(2)), (SLN, FILL(3)) DO16 * EQUIVALENCE (SAI, FILL(4)), (GAM, FILL(10))	70.73
DOIG # EOUIVALENCE (LA (1).FILL(5)).(LNG(1),FILL(7))	24
• C END INCLU,FYH	
	100
C	
D JOINE AS A SAME OF THE PROPERTY OF THE PROPE	
TO RATE CAMIES AS	
018 IF (IAG al. T. 15 26 141 57 341 15)	
020 1 ANGS A(3.14150 (16.0 SAT GT. 3) GO TO 333	
021 GH= 7713/21NCAMP:	
CALL CALIB(SAT.209)	
CALL SCHALL (200)	
25 CALL HEAN(OH) + LAN, 209 (IN, X(1), 5)	
25	
	•
29 FILLEGRAND HEARS 1.4FE.5)	
29 (2)*Gh4X(2)	
21 £(3)=(3,2)	
33 44.4 - 0.004-0.00	
34 AA=A/+1.5910e(3/2)=AC.421	
77*A' * / C30C#(3(3)## 21#C C750	
38 FE-50 4 (1-61-9)=0.6955	
39 Bb=8 +0.9142+(2(3))285 2120 6750	7.1
	Pigure 3.4.3.8
11 CC==7(1)=0,8995+7(2)=0,42u3+6(3)=C,0759=2(4)=0,0408+11,2082	Listing for GAMMA

GAMIA, FIN ZTILL PCKS/HR 20-SEP-79 15126153 PAGE 2 0042 DUEBF-98-2.0-AA-FC 0043 0044 0045 0046 RETURN TYPE SATANI 0047 3400 FORFAT(' PROBLEMS IAGE', 16, ' SATE', 16, ' NNE', 16, ' S TO STOP CH 10 CONTINUE', 10x, 'GAHMA') 0049 0050 ACCEPT 9,11TT 0051 FAR ATIALL IF (IITT.EC, IS') STOP 0052 6/ 12 1 0053 0054 END 3-72

FERTRAN	TV=Pi	US V02-51		1512	153 24-	SEP-79		PAGE 3							
AHMA F	TN	/TRIBLE	CKS/WR	, _											
ROGRAH	SECTI	NNS			· · · · · · · · · · · · · · · · · · ·									<u> </u>	
UMBER	NAME	515	E		ATTRIEU	TES	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·				
1	SCALE		302 42		84,1,00										
3	SICAT		79	·	PholoLE PholoLE				·····			· · · · · · · · · · · · · · · · · · ·			
<u>4</u>	SYARS		35		Fib. p L p C D										
6	≽TEN2 AbcIt		12 46		Has Lock Ras Lock										
7	DATA	002510	836		Fr. E, ZV						· · · · · · · · · · · · · · · · · · ·		 		
<u></u>	FLAS	000322	636 105		Fino Lok V Fino Lok V										
10		y 00 142	49		RhoLoky						-				· · · · · · · · · · · · · · · · · · ·
NTRY P	EINTS									· · · · · · · · · · · · · · · · · · ·					
NAME	TYPE	ADDRESS	NAME	TYPE	ADPRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	
GAMMA	· · · · · · · · · · · · · · · · · · ·	1-000000	· · · · · · · · · · · · · · · · · · ·									· · · · · · · · · · · · · · · · · · ·			
VARIABL	ŁS					·				· · · · · · · · · · · · · · · · · · ·					
NAME		ADORESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	
														-	
<u> </u>	He4	4+000000	ANG	He4	4-000064	BB GAM	Re4	4-000004	CC	Re4	4-000010	CEDE	105	4-000000	
CR 11TT	R≠4 _I+2	4=00-076 4=00-104	DD KAN	r• I•≤	10-666146	GAM NN	142	6-000032 4-080102	GAMA S	R#4	4-00002 0 4-000070	IAG SAT	104	2-000012 6-000016	
SFG	1•2	4=30:074	SLN	162	6-600014	STATUS		6-000006							
ARPAYS		· · · · · · · · · · · · · · · · · · ·													
NAME	TYPE	AUDRESS	S17	£	DIMENS!	LN5									
CH1	1+2	7-000600	000642	209	(209)	 									
CH2	1+2	7=000642	080642	209	(205)	•								•	
CH3 CH4	1+2	7=001504 7=002346	000642	5.3	(209)									· · · · · · · · · · · · · · · · · · ·	
DATE	1+2	6-001002	060004	2	(2)										
FAN FDN		10-00 190 10-090099	050040	16	(32) (32)										
FILL	102	6-00.010	00011E	<u>:6</u> :6	(36)							 			
FIN		10-000040	000045	16	(32)										
FLAG	L+1	9-000000	000322	115	(21()			-							
KH1 KH2	1+2	8-00:000 8-000642	<u> </u>	2.9	(205) (265)	· , · , · _ ,					 				·····
КНЗ	1+2	8-00:504	000642	200	(205)		·								
KH4	1.2	6-602346	000642	219	(508)										
LAT	1.2	6-00-020 6-00-024	000004	<u>2</u>	(<u>2)</u>	 		···							-
Х	Rea	4-000024	220022	- 6	(4)										
ž	R#4	4-00 044	060020	5	(4)										
						•			3-73						

Charles our records and present confidences

3.4.4 DATA ACCESS GET (SEG, ARRAY, CODE)

3.4.4.1 Linkage

In case of error, GET calls subrowtine GETNAM through its entry GETCRD.

3.4.4.2 Interface

GET interfaces with the calling routine through the calling arguments, and the common blocks /ANCIL/, /FILNAM/, and /DATA/.

The interface with GETCRD is through the calling arguments.

3.4.4.3 <u>Input</u>

NA

3.4.4.4 Output

When a segment is not in the data base, a line of output is sent to the line printer.

3.4.4.5 Storage

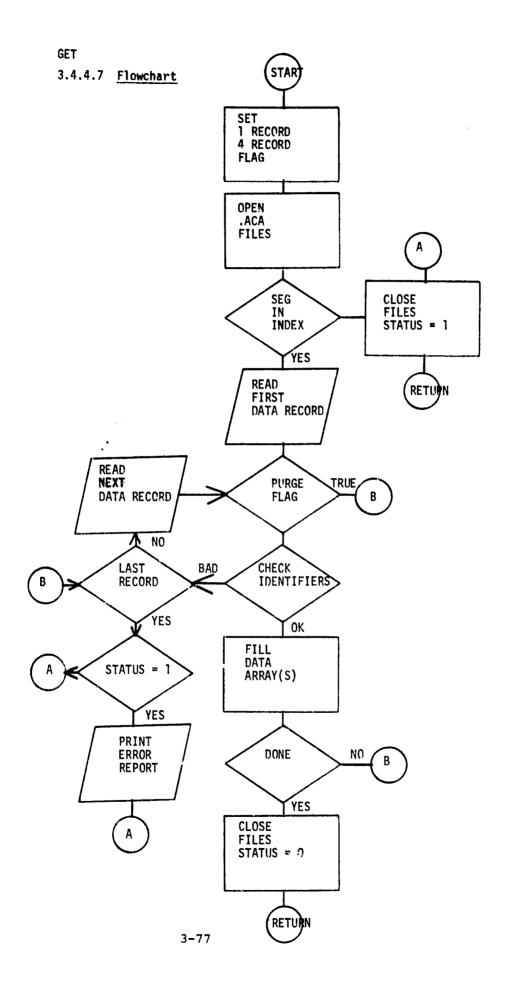
2385 Bytes

3.4.4.6 Description

GET first opens the ACA files. In case of error opening the file, GETNAM is called and it tries again. With a second failure it returns.

After the files are opened, the index file is searched for the segment. If the segment is found, the data file for that segment is searched for the correct code name. If the sixth byte of the code name is '*', the date is also checked. If the fifth byte is '*', four records are loaded into the common /DATA/. Otherwise the dot data is passed through the argument ARRAY. The common block /ANCIL/ is used for ancillary data.

If data is not found, status is set to 1. If status is already 1, a message is printed.



	N IV-PLUS V02-51 15123111 29-SEP-79 PAGE 1 N /T 1818CKS/WR			
001	SURROUTINE GET (SEG. ARRAY, NAME)			
	·	•	· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·	C GET USED TO PE FETCH C GET I TERACTIVLY GET THE DIC FHOM YOU (IF NECESSARY)			
	C GET ALSO DES 4 CHANNILS AT A TIME			
	С			
002 003	IMPLICIT 1 (TEGER+2 (4+4) BYTE (UM(4),FAN(32),TBU(32),FIN(32),NAHE(6), CHAR(6) CHAR(6)			
104	DIME SIRN 1876 X (256) (ARRAY (\$09), EUFFER (256)			
205	DI 18 S124 + INDEX(256), GH(205,4)			
<u>006</u> 007	DI 'E SIZ' CH1(209), H2(209), Ch3(209), CH4(209) EQUIVALENCE (CH2E(1), BUFFEE(5))			
007 008	ESSIANTE (CATALON TO DELA EXTENSIA		•	
009	EQUIVALENCE (CP1,C4(1,1)),(CH2,CH(1,2))	•	~ F.	
010	EQUI ALENCE (CHS.CH(1.5)), (CH4.CH(1.4))		- S. S	
011 512	CARM', /CATA/ CH1,CT2,CH3,CH4 CHEM V /ANGIL/COME, FATE(2), STATES, FILL(36)		ONG NEW TOTAL	
013	GRIMAN ALIENANA EDN'E INTERN'EN		23	
<u> </u>	DATA (UM/11,121,131,141/		Z CC	
015 016	FLAG=0 EPT C		mE.	
017	IF(NAME(5),EQ. 101) FLAG=1			
113	10 OPEN (UNIT=7. NAME=FIG. TYPER!ULD! ERR=300.		A LA	
040	ACCESS=IDIRECT', READ NLY)		180	
<u> </u>	D3 1 Iz1.209 D0 1 J=1.4			
021	11 CH(I,J):0		Ž-3	
022	READ (711) HINDEX		POOR THE	
023	D TYPE 13.LINDEX.SEG.DATE.APRE 13 . FRANT(MINDEX., 14.10, 214, 6A2)			
024	APER (UNITED NAME FED TYPE SOLD LERRESON			
	,ACCESS=1DIRECT',READ-NLY)			
725	- NADATCE:			
26 127	De 20, K=3,L1RDEX-1,2 READ (71K) INDEX			
880	[2 20, J=1,255,2			
129	IF (145-Y(J),E9,U) 60 TE 20			
630 631	IF (INDEX(J),EG,SEG) GO TE 40		•	
C32	30 IF (:TATUS ,FO, 1) PRINT 20C, SEG			
333	GØ 7' 130			
034	4n READ (8+INDEX(J+1)) buffer			
075	D Type 230.(- UFFER: MM) - MI = 1.71. CHAR 230			
635	45 JF (TOFFFR(254)) 30 TO 110			
037	50 BB 60, K=1,4 .			
038 039	16 (MAME (X), ME, CHAR(K)) 62 10 110			
040	F(FLAG.FC. J. AND CHAH(5) NE NAME(5)) GR TH 110		Figure 3.4.4.8	
041	IF (CMAR(6), IF, '#!) GE TE /U		Listing for GET	
042	IF(LL.LT.1,"K.LL.GT.4) GE 10 110			
045 044	IF (LL,LT,1,"K,LL,GT,47 GE TO 110 IF (CATS(2),ME, GOFFEM(3)) GE TE 100			
045	IF ([ATE(1), NE, 30FFEN(2)) GE 10 100			
246	70 CADE = GUFFER(R)			
047	DØ 75 KK=1,36			

.

FARTON	The David Man For an Artistana and Artistana
GET.FTV	IV-PLUS VO2-51 15123 11 2C=SEP-79 PAGE 2 /T'10LMCKS/WR
0045	75
0049 0050	IF(FLAG .EQ. 0) F/ TO 36 DD 8 . 1=1.209
0051 0052	60
0053	# CH(1.3) FO:0:0R:CH(1.4) EQ:0) GØ TØ 110 86 CL.Sc (UNIT=7)
0054	CLOSE (UNITER) STATUSEU
0056 0057	
0055	n
0059 <u>0060</u>	87 ARRAY(L)=RUFFEP(L+H) GP_TO_RE
0061 0062	300 [F(ERT,^E,0) GE TE 130 CAL! GETCRD (FAM,FLM,FIM,KAM)
0063 0064	E T=1 G* T. 10
0065 0066	SO IF (ALATE, ED.1) GO TO 120 IF (STATUS, ED.1) PRINT 210, NAME, SEG
0067 0068	GR T 150 100 PACATE = 1
0669 0670	110 IF (UFFER(256), FG, [MDEX(J+1)) GU TO 90 READ (COCUFFER(256)) BUFFER
0071	D TYFE 230,(RUFFER(MM):MM=1,7):CHARGB TM 46
0072 0073	120 IF (STATUS,EG,1) PRINT 220, NAME, SEG, DATE,BUFFER(2),BUFFER(3) 130 GLASE (GMIT=7)
0074 0075	CL75- (UNIT=R) STAT_S = 1
0076 0077	RETURN 200 FRANT (' ', ' SESMENT ', 14, ' FAS NO DATA IN THE DATABASE'/)
00.78	210 FARMAT (' ', THE ARMAY NAME, ', 6A1, ', DOES NOT EXIST FOR SEGMENT
0079	220 FREM; T (1.1 THE ARHAY NAME, 1.6A1.1. IS PRESENT IN THE DATABASE
	FOR SECRENT 1.14.1. BUT NOT FRE THE DATE 1.12.X.13/. THE CONTENTS B. THE BUFFER ARE 1.214.//)
0300	END
	
	

3-79

			•	•	_ 1,										\$ 1997 VE
	\$3×			·	- · ·		٠		•					•	
EURTHA	N IV-P	LUS V02-5	1	151:	23111 2			· · · · · · · · · · · · · · · · · · ·						•	
46140	H	/TH16	LJCKS/kR		CV 4.1	0-SEP-70	<u></u>	PAGE 3	<u> </u>						
PRØGRA	M SECT	10NS	· · · · · · · · · · · · · · · · · · ·	·····											
NUMBER	NAH	Ę S	176		47747	1112-0									· · · · · · · · · · · · · · · · · · ·
1	\$C#D					FÜTES									
	LIPA	IA 00057	188		Ph.I.	LEN. LCL			•						
4 5	SVAR.	s 00308	6 779		fiholo	CUN.LCL									
É	DATA	90421	0 636		- Khala	LEN LCL									
7 €	FIL W	00 12	1 40		- Rho Col	EVR.GRI									
	I L	M 00 14	2 49		Photoi	VF GAL					· · · · · · · · · · · · · · · · · · ·				
ENIRY F	181 HTS														
NAME															
	TYPE	ADDRESS	NAME	TYPE	ADDIRESS	NAME	TYPE	ADDRESS	NAME	7485	. 22.25		······································		
GET		1-000000	1						HAPTE	1175	ADDRESS	NAME	TYPE	ADDRESS.	
							····					····	·		
VARIABL	ES		······································												
NAHE	TYPE	AUDRESS	NAME	TYPE	ADDRESS										
BADATE						NAME	TYPE	ADDHESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	
	102	4=003014 4=003012	CADE	102	/-000000	ERT	1+2	4-003006	FLAG	1+2	4-003004				
LINDEX	1+2	4-90 909	LL	10:	4-003016 4-003020	KAN SEG	1.2	0-000140	KK	1.2	4-003022	I	102	4-003010 4-003024	
				 			145	F-000002+	STATUS	1•2	7-000006			44003054	
ARRAYS															
NAME	TYPE	ADDRESS		7 F	DIMENS	lane	•								
ARRAY						KNS					<u> </u>				
BUFFER	1+2	#=00000044	<u> </u>	508 508	(209)									2	r
CHAR	102	.5∞.) ն∷րնը	003210	8,6	(206,4)	,									
CH1	L+1 1+2	4-901013 6-99 009	000036 000642	3 299	(6)				· · ·						
CH2	1.5	6-000642	000642	2-9	(209)					·					
CH3 CH4		6-1915n4 6-19 346	0006-12	21-9	(205)										
DATE		7-10-012	700642 1000-14	503	(205)										
FAN	L+1	8=30010g	090640	16	(35)										
	-01	<u> </u>	000040	16	(32)										
FILL	1+2	7-000010	000110	36	(36)										
	L#1	8-00:040	000045	6	(32)					•	-				
HINDEX	1+2	4-90<004 4-690900	001600	2:6	(256)									_ •	
		F-00 005*	001000	226	(256)										
	L • 1	4-3 <u>02000</u>	000004	3	(6)								<u> </u>	,	
		<u> </u>	190000 4		(4)	····			·	···		•			
ARELS															
LABEL	ADDRES	: 0	1					***************************************		······································					
	ADUNCS		LAEEL	ADDRE	55	LABEL	ADDRE:	3 S	LABEL	ADDRE	ss	LABEL	ADDOC	36	
					·								AUDRE	-2	
								3	3-80						
														•	

PORTOAN	THE HAS HAS	F.4	45134414	20-608-70						
GET.FT	TV-PLUS VD2-	FLOCKS/WR	15123111	20=5EP=79	PAGE	4				
19 40	1=000110 1=000522	11 45	1-000574	13' 50	**	20	••	30 7"	1-000450	
75	#	មា	• •	86	1-001250	60 87	••	80	1-011016 1-001510	
90 200'	1-001366 3-000000	100 210'	1-001450 37000000	220+	1+001472 3+000152	120 230*	1=001560	130 3.0	1-001666	
									• • • • • • • • • • • • • • • • • • • •	
FUNCTIM	NS AND SUBRRU	TINES REFE	RENCED							
CLASS	GETCRO MPE	14 5								
TOTAL SI	PACE ALLECATE	D = 011242	23 35						•	<u></u>
	INSTRUCTIONS									
GET, LP1		5								
										·
								ORAGINAL PAGE		
		 			 			- 2 2		
					<u> </u>			700		•
				·				FO WE		
	·····							Q.	4	
			-					<u> </u>	2	
								- V	S C C C C C C C C C C C C C C C C C C C	
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• • •

3.4.5 ACA FILE NAME INPUT (GETNAM(FDN,FIN))

3.4.5.1 Linkage

GETNAM does not call other subroutines.

3.4.5.2 Interface

GETNAM is interactive. The interface with the calling program is only through the arguments.

The entry GETCRD(FAN, FDN, FIN, KQ) is not interactive except when an error is encountered.

3.4.5.3 Input

See figure 3.4.5.4 for an example of interactive file definition.

3.4.5.4 Output

See figure 3.4.5.4 for an example of interactive file definition.

3.4.5.5 Storage

655 Bytes

3.4.5.6 Description

GETNAM establishes the ACA data file name FDN and the ACA index file FIN.

Interactively if you enter [a,b] FDN and FIN are defined.

FDN = [a,b]DOTDATA.ACA.

FIN = [a,b]DOTINDEX.ACA.

If you enter FN, file [200,7] FN.DAT is opened and FDN and FIN are read. If Z is entered FND and FIN are obtained interactively.

\$ INPUT VIC OF DOTDATA FILE FN, S OR Z GETNAM
[200,7]

\$ INPUT UIC OF DOTDATA FILE FN, S OR Z GETNAMEN

\$ IMPUT DIC OF DOTDATA FILE FM, S OR Z GETNAM S GENPLT --- STOP

1 THE SECTION OF DUTDATA FILE FN. SOR 2 GETNAM
ENTER 32 CHARACTER DATA FILE NAME END=8
1200.71 DDATA.ACAS
ENTER 32 CHARACTER INDEX FILE NAME END=8
1200.71 DINDX.ACAS

[200,7]DDATA.ACAW [200,7]DINDX.ACAW CR TO ACCEPT ,S TO STOP .A TO TRY AGAIN A ENTER 32 CHARACTER DATA FILE NAME END=W [200,7]DOTDATA.ACAW ENTER 32 CHARACTER INDEX FILE NAME END=W [200,7]DOTINDEX.ACAW

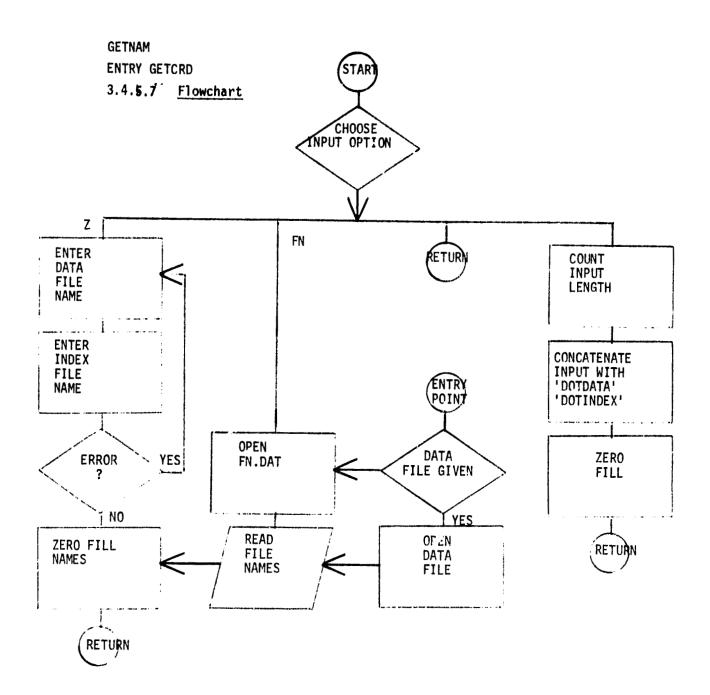
[200,7]DBTDATA.ACA@ [200,7]DBTINDEX.ACA@ | CR | TD | ACCEPT | STD | STDP | ATD | TRY AGAIN

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

Figure 3.4.5.4

For entry GETCRD, the file name in FAN of length KO-1, is opened and FDN and FIN are read. If KQ = 1, [200,7] FN.DAT is opened and FDN and FIN are read.

In every case, the arrays FIN and FDN are zero filled before control is returned to the calling program.



REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR



FEPTRAN IV-PLUS GETNAM.FIN	IV-PL	LUS VOR-51 15127150 20-SEP-79 PAGE 1	
	Ç	GETNA : 107E9ACTIVLY GETS FILE LIC FOR DATRATA ACA	
0001		SHE PRUTINE GETAANSFONSFIAN	
200	ပ	FIG. IS THE INTEX FILE NAME (LAXALAXXIDOTINDEX, ACADOD)	
0003		EYT UIC(10), FOR (32), FIR (32), FOR (32), DOTDA (11), PRETINCIE)	
900		LATE LATERATURATE 17 . 61, 741, 171, 141, 12 141, 101, 141, 161, 16	
0000		DATA DETINATED 1212, 17, 11, 18, 18, 18, 18, 18, 18, 18, 18, 18	
9770	65		
0000 0110	100	FUR ATCH TEPUT UIC OF DETUBATA FILE FN. S PR Z GETNAM!)	
0011	200	20 6 34 62	
513		[F(U[C(1), F0, 1F') G0 10 40.3	
0035		71	
916	, ;	ISCULCELLED ANT, NA. EG. D. ANEL	
17 13	501	C 31 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
0019		FON 1) aUTS(1)	
6621	302	0.411/UE	
25		FOR(1) = 00 TOA (1 - 0.0 + 1)	
23.5		Flv(1) sport of tentier 1	
0025	202	D2 04 [=NV+11,32]	
0027 0028		04(1)2(4,	
29	408	G 2 4 1 1 2 5 5 1 1 2 5 5 1 1 2 5 5 5 5 5 5 5	
0031	400	3ETUR:	
33			
0034	610	FORWALL SWIER 32 CHARACTEN CATA FILE NAME ENDRO!)	
325	623	E342A1(32A1)	,
0033	611	FPRE 011 FRIEW 32 CHARACTER INDEX FILE NAME ENDRO!	
0633 0541			
41	612	AT(/, 1,32A1,/, 1,32A1,/	
0042		ACCEPT 200, TX	
0044		IF(IX, EQ, IAI, G2 TØ 600	
45	650		
0047		ORGAL DECAL	
0043 0043		0. 613 K=1,32 IF(FI)(K),FD,*M) #FDs99	
0050		FLICK)=0	Z,
0003			

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GETNAM FTN	PLUS V02=51 15°271>0 24=55P=79 PAGE 2 /TR(BLUCKS/NR
0053	HETURN
C	CURRY SCRAWARNI PAR. CAN MEN
0054	ENTRY GETCHT(FAN, FUN, FIN, KG) WRITE(6.444) FAN
0055	IF(n, .29, 1) 60 To 403
0055	D 401 11±Ku, 32
0057 40	1 FAN(11)=0
0053	##]TR(0,444) FAN 4 FERNAT(* 2,3244,77)
0058 44 0059	# PERTAIL TERMINETANETYPE=FALDE.
	ADDESS=!SEQUENTIAL!, ERR#961
0060 40	2 READ (2.424, ECRED 66, ENDES 66) FUN
0061	RFATI(2,420,ERP=060,END=660)FIN
0063 420	\$1.55(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
0064	F39(4T(32)1) G5 T7 650
0065 66	5 White(6.667).FAV.FDM.FIN
0066	GE、37(U :1T=6)
0067 56 0059	7 FER ATC' FILE NAME EMMER GETCRD (GETNAM) 1,3(/32A1)) RETURN
0069 40	3 CHECTURITES, NAMERICSOU, 73FR, DAT+, TYPER+OLD+,
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1-003044 100 3-0	_	3-000070 301		305
003 8=0.003 444. 84 420 ≥ 000339 444. 84		1-009452 61	402 1-001216 610* 3-000074	453 1-001940 611: 3-000156
3-000554				
FUNCTIONS AND SURAPUTINES REFERENCED				

	FURTRAN IV-PLUS V02-51 15127150 20-SEP-79 PAGE 4 GETNAM,FTN /THIBLUCKS/WR
3	GETNAM.FTN /THIBLUCKS/WR
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3.4.6 HAZE CORRECTION (HAZCOR)

3.4.6.1 Linkage

HAZCOR calls KAUTH.

3.4.6.2 Interface

HAZCOR interfaces with the calling program through the common blocks /ANCIL/, /DATA/, and /KAUTH/.

The interface with KAUTH is through the common block /KAUTH/.

3.4.6.3 <u>Input</u>

None.

3.4.6.4 Output

None

3.4.6.5 Storage

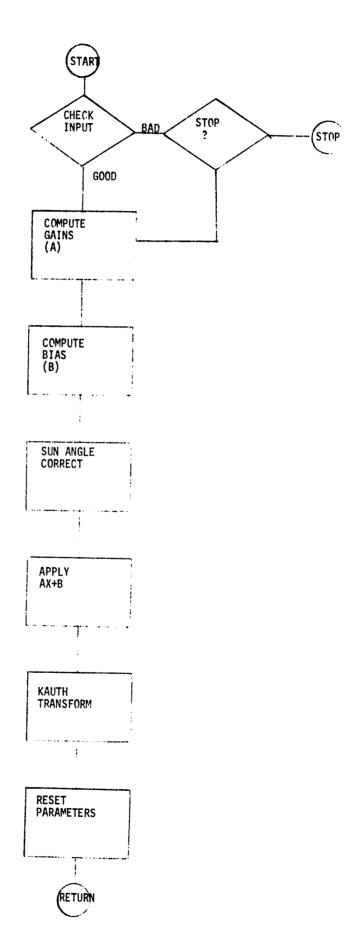
2245 Bytes

3.4.6.6 Description

HAZCOR takes the value of GAM from the common block /ANCIL/, computes correction terms and applies them to the contents of /DATA/. Then KAUTH transforms the corrected values stored in DATA, updating /KAUTH/.

HAZCOR

3.4.6.7 Flowchart



RETRODUCTBULTY OF THE POOR ORIGINAL PAGE IS POOR

<u>.</u>			
		S V07-51 15127112 2045EP-79 PAGE 1	
HAZCZR.	TN	/T ITL PCKS/WR	•
	C HAZC	CAP.FTA	
	C	Correct State Its 200B	
0001		RE L A(4), F(4), GAMMA, CUR, ANGHAD	
0003		INCLUME TIMOLULETA	
	C		
•	<u>C</u>		
0004 #	·	INTEGER+2 CH1(209), CH2(209), CH3(209), CH4(209)	
0005 +		IN EGER+2 KH1(209) + KH2(205) + KH3(209) + KH4(209)	
0006 *		RYTE FLAG(210).FA (32),FCA(32),FIN(32) INTEGER® SEG. NATE 21,GSIE,STATUS,FILL(36)	
0007		INTEGERAL TAG. SLIL, SAT. GAM. LAT(2), LNG(2)	
0009 +		GOWERN MANGILY SOE, BATE, STATUS, FILL	
0010 *		CTRME: /DATA/ CH1.CH2.CH3.CH4	
0011 *		COMMEN ZKAUTHZ FHI,KHZ,KH3,KH4 COMMEN ZFLAGZ FHAG	
0612 •		CTHME' FELLMAM FONFINOFANORAN	
0014 *		FOUTVALENCE (IA', FILL(2)), (SLN, FILL(3))	
0015 •		EGUIVALENCE (SAT, FILL(4)), (GAM, FILL(10))	•
0016 *	С	FOUTVALENCE (LAT(1) FILL(5)) (LNG(1) FILL(7))	
		END THELU.FTN	
•	C		•
	<u>C</u> D	TYPE 100	
0017	100	FR MAT(! HATOUR DEBLG BA!)	
0013		GA MA=(GAM=300)/10 0	
0019		1F (GAMMA, GT. 0.7 AM, GAMMA, LT. =0.7) GØ TØ 333	
0020 0021	4	IF(1AG.LT.15 , 7K, IAG, 6T, 75) GØ TØ 333 AN RAD=14643,1416/190	
0022		CZK=,77713/SI ((ANGRAD)	
0023		A(1)=EYP(-1,2040*G: MMA)	
0024		A(2)=EXP(+1,0916+6HMA)	
0025		A(-)=EXP(-0,0356+GAMMA) A(-)=EXP(-0,59x1=G MMA)	
0027		9(1)=61,0+(1-A(1))+C2R	
0028		8(2)=66,2*(1-4(2))*COR	
0029		9(3)=83,20(1=A(3))*COR	
0030 0031		8(4)=35,9*(1-A(4))*COR A(1)=4(1)*Co?	
0032		A(A)=A(2)+CLR	
0233		A()=A(3)#CCG	•
0034	D	A(4)=A(4)+C2R TYSE 102.A.B	
0035	102	FE MAT(HAPONE A AND B', /, 8F6,3)	
	С		•
2	C	D2 2 K=1.209	
0036 0037		CH1(K)=CH1(K)+Y(1)+q(1)	
• <u>0038</u>		CH2(K)=CH2(K)=A(2)+H(2)	
0039		CH3(K)*CH3(K)*Y;3)+A(g)	
7 0040		CH4(K)=CH4(K)=A)4)+t(4) C2**TINUE Picure	3.4.6.8
* 0041 * 0042	2	CALL WANTUISCAN	
			for HASCOR

ENDTON	- 1.1_D: u\$	V02-51 15127112 2C-SEP-79 PAGE 2
HAZCER,	FTN	V02-51 15127112 2C+SEP+79 PAGE 2 /TS18L@CKS/WR
0044		1 A = 51 GA = 330
0045 CC 5		RE ORD
6647 6346	333	TYPE 200, GAT GAMMA TAG SAT FERTIATET HILZER PHRELEPSTATA
0346	200	FREITATUR MARCHENTELERSTEIN
		9 GAIN # 9 Ph. dada
		1 1aG=1,16:/:
	•	1 1AG#1,161/4 1 SAT#1,161/4 1 CR TH CZKTINUE S TØ ST2P1)
0049		48859° 244.117
6650	201	FI PAT(A1)
0051		FC MAT(A1) IF(ITT ,EQ, 'S') STAP G2 TO 1
0052 0053		EAC .
		
	 	
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3 115474 00 202 65 Relighted 4 19480 070044 26 Relighted 6 ANGIL 00 122 40 Relighted 6 ANGIL 00 122 40 Relighted 6 ANGIL 00 122 53 Marchited 7 0474 701210 53 Relighted 8 Namin 05/210 53 Relighted 9 File 07 522 105 Fellware, Gel 9 File 07 522 105 Fellware, Gel 10 File 11 000142 49 Relighted 10 File 11 000142 49 Relighted 1 1 0 File 11 000142 49 Relighted 1 1 0 File 11 000142 49 Relighted 1 1 0 File 12 000142 40 Relighted 1 1 0 File 12 000144 40				E		49761611	V C C				······		<u></u>		·	
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ANGRAD Re4 4-000050 C7DE 1e2 5-00000 C8R Re4 4-000044 GAM 1e2 6-000032 GAMMA Re4 4-000046 ITT 1e2 4-000062 K 1e2 4-00056 KAN 1e: 12-00040 SAT 1e2 6-00006 SEG 1e5 4-00004 SLN 1e2 6-000014 STATUS 1e2 6-00006 SEG 1e5 4-00004 SLN 1e2 6-000014 STATUS 1e2 6-00006 SEG 1e5 4-00004 SLN 1e2 6-000014 STATUS 1e2 6-00006 SEG 1e5 4-00004 SLN 1e2 6-000014 STATUS 1e2 6-00006 SEG 1e5 4-00004 SLN 1e2 6-000014 STATUS 1e2 6-00006 SEG 1e5 4-00004 SLN 1e2 6-000014 STATUS 1e2 6-00006 SEG 1e5 4-00004 SLN 1e2 6-000014 STATUS 1e2 6-00006 SEG 1e5 4-00004 SLN 1e2 6-000014 STATUS 1e2 6-00006 SEG 1e5 4-00004 SLN 1e2 6-000014 STATUS 1e2 6-00006 SEG 1e5 4-00004 SLN 1e2 6-000014 STATUS 1e2 6-00006 SEG 1e5 4-00004 SLN 1e2 6-00004 SLN 1e2 7-00004 SLN 1e2 7-000004 SLN 1e2 7-00004 SLN 1e2 7-000004 SLN 1	VARIABL	ES													·	
TAG	NAME	TYPE	ADDRESS	NAME	TYPE	ADURESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	
SAT 1-2 6-00rc16 SEG 1-4 4-0000-4 SLN 1-2 6-000014 SYATUS 1-2 6-000006 ARRAYS NAME TYPE ADDRESS SIZE LIMENSIONS A Red 4-00rc0 rordo										GAH		6-000032		Re4	4-000048	
NAME TYPE ADDRESS SIZE LIMENSIQUS A Red 4-00000 000000 8 (42) b 644 4-00 020 000020 8 (4) CH1 I-2 7-00 000 000042 209 (209) CH2 I-2 7-00 642 000042 209 (209) CH3 I-2 7-00 504 000642 209 (209) CH4 I-2 7-00 504 000642 209 (209) CH4 I-2 6-00 000 000040 2000 CH5 I-2 6-00 000040 16 (32) FAN L-1 10-000000 000040 16 (32) FDN L-1 10-000000 000040 16 (32) FILL I-2 6-00 010 00010 06 FILL I-2 6-00 010 00010 06 FILM L-1 19-000000 060040 16 (32) FLAG L-1 9-000000 060040 16 (32) KH1 I-2 B-00000 060042 209 (209) KH2 I-2 B-00000 060042 209 (209) KH3 I-2 B-001504 060042 209 (209) KH4 I-2 B-00000 060042 209 (209) KH4 I-2 B-00000 060042 209 (209)										STATUS			<u>N</u>		752884746	
NAME TYPE ADDRESS SIZE LIMENSIQUS A Red 4-DDREDD GCD020 B (42) b Red 4-DDREDD GCD020 B (42) c Red 4-DDREDD GCD020 B (42) c Red 4-DDREDD GCD020 B (43) c Red 4-DDREDD GCD020 B (42) c Red 4-DDREDD GCD020 B (43) c Red 4-DDREDD GCD020 B (44) c Red 4-DDREDD GCD020 B (44) c Red 1-2 7-DD GOD GDG042 2D9 (205) c Red 1-2 7-DD GOD GDG042 2D9 (205) c Red 1-2 7-DD GOD GDG042 2D9 (205) c Red 1-2 6-DD GOD GDG04 B (32) FILL 1-2 6-DD GCD GDG042 2D9 (205) KH1 1-2 B-CDG05 GDG042 2D9 (205) KH2 1-2 B-DG156 GDG042 2D9 (205) KH3 1-2 B-DG156 GDG042 2D9 (205) KH4 1-2 B-CD-346 GDG042 2D9 (205)	ARRAYS		•						·							
A Red 4-propo 000020 B (4) b 644 4-00 020 000020 B (4) CH1 1-2 7-00 000 000642 209 (209) CH2 1-2 7-00-642 000042 209 (209) CH3 1-2 7-00 504 000642 209 (209) CH4 1-2 7-00 504 000642 209 (209) CH4 1-2 7-002346 000642 209 (209) DATE 1-2 6-00 002 00004 2 (2) FAN L-3 10-000100 000040 16 (32) FDN L-1 10-000100 000040 16 (32) FILL 1-2 6-00 00 000040 16 (32) FLAG L-1 9-00006 000042 1-5 (2) FLAG L-1 9-00006 000042 2-9 (209) KH3 1-2 8-00 642 000642 2-9 (209) KH3 1-2 8-00 642 000642 2-9 (209) KH3 1-2 8-00-346 000642 2-9 (209) KH4 1-2 8-00-346 000642 2-9 (209) KH4 1-2 8-00-346 000642 2-9 (209)		TYPE	ADDRESS	SIZ	·····	LIMENSI	ens	•								
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FNA L=1 10=020030 200040 16 (32) FILL I=2 6=00 010 000110 '6 (30) FIN L=1 19=000040 000040 16 (32) FLAG L=1 9=000050 000322 1.5 (210) KH1 I=2 8=000050 00042 209 (205) KH2 I=2 8=00 (42 000642 209 (209) KH3 I=2 8=001504 000642 209 (209) KH4 I=2 8=00-346 000642 229 (209)	DATE	1.2	6-00 302	000604	2	(2)				·						
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KH1 102 8-00000 000042 219 (205) KH2 102 8-00 642 000042 219 (209) KH3 102 8-001504 000042 209 (205) KH4 102 8-00-346 000042 229 (205)	FIN	1.01	19-00-040	060040	16	(35)										
KH2 I+2 B-GC 642 000642. 269 (269) KH3 I+2 B-GG1564 000642 209 (209) KH4 I+2 B-GG-346 000642 229 (209)			9 - 0000066 8 - 000000													
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ADDRESS	ADDR	13AV1	ADDRESS	LABEL	ADDRESS	LABEL	RUDHESS	Tage	APPRESS	LAHEL		
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3.4.7 INTERACTIVE SEGMENT CHOICE (INTRAC (SEG, DATE, CNAM)

3.4.7.1 <u>Linkage</u>

INTRAC calls GETNAM.

3.4.7.2 Interface

The interface with the calling program is through the arguments and the common block /FILNAM/.

The interface with GETNAM is through the arguments.

3.4.7.3 Input

INTRAC is interactive. See figure 3.4.7.4 for examples.

3.4.7.4 Output

INTRAC is interactive. See figure 3.4.7.4 for examples.

There is an optional line printer report.

3.4.7.5 Storage

1566 Bytes

3.4.7.6 Description

INTRAC makes it possible to interactively choose segment acquisitions for further processing.

INTRAC first opens the ACA files. If this fails, it interactively gets the file names through GETNAM and opens the ACA files. It then asks for a segment number. If it gets 9999 it returns. If it gets a segment in the data base, the acquisitions are optionally displayed. If the segment is not in the data base the program asks for a new segment.

```
TO STOP TYPE S
                                 INTRAC
  ENTER SEGMENT NUMBER (9999 TO PROCESS)
1566
SEGMENT 1566 APPEARS IN THE DOTINDEX
TYPE I FOR DATES IN FOR A NEW SEGMENT
    1566 0 0 TRTH/8
                                     5994
    1566 78196 SWCH1◆
                                     2948
    1566 78133 SMCH1◆
1566 78133 SMCH1◆
1566 78169 SWCH1◆
                                     2944
                                     2940
                                     5936
                               0
                                     2932
 ENTER SEGMENT NUMBER (9999 TO PROCESS)
9999
    SEGMENT IS 1566
    FOR NEW SEGMENT TYPE X. OF TO CONTINUE
                                              INTRAC
```

ENTER Y TO PROCESS 1566 78838

ENTER DATE

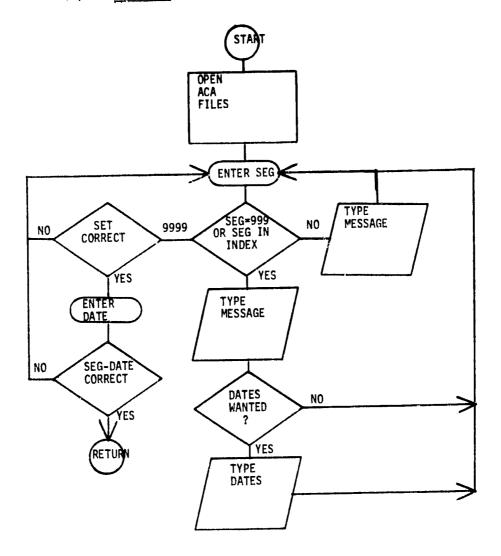
78232

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POUR

Figure 3.4.7.4

INTRAC

3,4,7.7 Flowchart



i.	TVDE 136, 956	1200 474 650
14PE 136. SEG	TVDE 136, 956	1200 474 650
14PE 136. SEG	TVDE 136, 956	1200 474 650
14PE 136. SEG	TVDE 136, 956	1200 474 650

FARTRAN IV-PLUS VOZ-51 INTRAC,FIN /T-1PLECKS/HR 15127129 20-5EPR79 PAGE 2	ALSØ(1)=5UFF LF(254)	LSE IEFIRST	INTERPRETATION BALLAND GE TO 2	IF(1ETW-1.P. 5018: 10-1	٥	GAAPI (1)=S:UF (5)	GAA41 (2) = S 1/F (6)	FE	TYPE	TINK PRES		FUR NEW SEGNE	TYPE 177	2.5	F?RHAT(A1)	15(1P, 50, 1Xt) 50 TO 1		GGEPT 212, DATE	YPE 114, SEG. DATE	٦,		I' (IP.Eq.'W) CLOSE (UNIT*2, DISF*:DELETE!)	78.33	CL SSETURY TEAD RETURN	CALL GETWAM(FDW,FIN)	G TE 10	
EZRIRAN IV.PL	ú							103	999	D 110	3	96		177	210		112	6		114	-	2 C			300	į	
FORTE	6600	0555	0.155	6653	3		6364	0066	7900	0068				02020	0071	ı	0274	6075	6977	00.79	0086		1000 0000 0000	00H3	00.84	0285 0285	

THAC, F		/T: 15L4	CKS/H?	15127	29 20 - 9	EFP-79		PAGE 3							
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NTHAC		1-606000				 -									
RIABLI	5						· · · · · ·					- 			
IAPE	TYFE	AUDRESS	hat.F	TYPE	ADLRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADPRESS	NAME	TYPE	ADDRESS	
THST	1•2	4-903056	IEND	1+2	4-163662	IERR	1•2	4-003060] P	L-1	4-003050	10	L+1	4-003051	
DX	Le1 [02	4-003047 4-001650	HXP	105	4-0(1776 4-1(1002	SEG	102	4-003054 F-003002*	SIG	1.5	4-003052	Kan	104	6-888140	
3 F A V C															
YAME	TYPE	ALDRESS	517	ıĘ	DIMENSI	e •15									
VAME	1+2	4=983652	000014		(2)	€ '15									
VAME LLSP SUFFER SP AMI	1+2 1+2 1+2	4=003052 4=000059 F=505006	<u> </u>	2 2 ⁵ 6 3	(2) (256) (3)	ę is_									
VAME LLSP BUFFER	1+2	4-003052 4-001069 F-001044	000014 001000 000006	2 2 ⁵ 6	(2) (256) (3) (2) (11)	ۥ:S									
NAME LLSY BUFFER CHAMI DATE DATE	1+2 1+2 1+2 1+2 1+2 1+1	4-903072 4-001009 F-001044 F-003022 4-903655	000004 001000 000006 000004 000013	2 ⁵ 6 3 2 5	(2) (256) (3) (2) (11) (12)	e us									
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VAME SUFFER STAM1 DATE DATE DATE DATE DATE DATE	I+2 I+2 I+2 I+2 I+2 I+1 I+1 I+1 I+1 I+1	4-903052 4-00'969 F-5050'64 4-00'80'44 4-00'80'45 6-60'90'00'8 6-590'00'8 6-60'96'00'8	000074 001000 000066 000013 000013 000014 000040 000040	2 5 6 5 6 16 6 6	(2) (256) (3) (2) (11) (12) (22) (32) (32)	\$ "15									
VAME SUFFER STAM1 DATE DATE DATE DATE DATE DATE DATE	I+2 I+2 I+2 I+2 I+2 I+1 I+1 I+1 I+1 I+1 I+2	4-903052 4-00-969 F-5055-66 F-60-00-6 4-90322- 4-903035 6-60-100 6-590000	000074 001000 000066 000074 000013 000014 000040	2 2 5 5 6 16 16	(2) (256) (3) (2) (11) (12) (12) (12) (12) (12) (12)	e · is									
VAME SUFFER	I+2 I+2 I+2 I+2 I+2 I+1 I+1 I+1 I+1 I+2 I+2 I+2 I+2	4-903072 4-00909 F-507046 F-000046 4-003020 4-003020 6-00-100 6-00-146 4-00209 4-001070 4-001070	001014 001006 000066 000014 000014 00014 00040 001000 001000 001000	2 2 5 6 3 2 5 6 6 16 6 6 2 7 6 2 7 6 7	(2) (256) (3) (2) (11) (12) (12) (12) (12) (12) (12)	ۥiS									
VAME SUFFER	I+2 I+2 I+2 I+2 I+2 I+1 I+1 I+1 I+1 I+2 I+2	4-903052 4-009059 F-505046 F-000064 4-003020 4-903020 6-509000 6-509000 6-609000 4-002052 4-001055	000074 001000 000066 000074 000014 000040 000040 001000 001000 001000 001000	2 2 5 6 1 6 1 6 6 2 7 6 2 7 6	(2) (256) (3) (2) (11) (12) (12) (12) (12) (12) (12)	R-1S									
VAME LESM BUFFER CHAMI DATE DATE DATIN FAIL FOU FILL INJEX STUF ILL ILL ILL ILL ILL ILL ILL I	I+2 I+2 I+2 I+7 L+1	4-903072 4-009099 F-507046 F-6000464 4-003022 4-903023 6-60 100 6-50 945 4-00202 4-00202 4-007004 4-000014	000074 001000 000066 000074 000014 000040 000040 001000 001000 001000 001000	2 2 5 6 3 2 5 6 16 16 6 2 7 6 7 1	(2) (256) (3) (2) (11) (12) (32) (32) (32) (32) (32) (32) (32) (3	£-1S									
VAME BUFFER BUFFER DATE DATE DATE DATE LAUF FILL LAUEX STUF	I+2 I+2 I+2 I+7 L+1	4-903072 4-00'959 F-5070'66 F-60'95'64 4-0030'55 6-60 103 6-50'969 6-50'969 4-000'62 4-00'96 4-00'96 4-00'96 4-00'96	000074 001000 000066 000074 000014 000040 000040 001000 001000 001000 001000	2 2 5 6 3 2 5 6 16 16 6 2 7 6 7 1	(2) (256) (3) (2) (11) (12) (22) (32) (32) (256) (7) (2)	LABEL	ADDF	RESS	LABEL	ADDE	PESS	LABEL	ADDR	RESS	
NAME LIST STATE DATE DATE	I+2 I+2 I+2 I+2 I+2 I+1 I+1 I+1 I+1 I+2 I+2 I+2 I+2 I+2 I+2 I+2 I+1	4-903072 4-009099 F-507046 F-0000764 4-903033 6-60 100 6-500000 6-500000 4-003092 4-001273 4-001014 4-60 395	001014 001000 000006 0000013 000013 000014 000040 000040 001000 001000 001000 001000 001000	256 3 25 6 16 16 256 276 7 15	(2) (256) (3) (2) (11) (12) (22) (32) (32) (256) (7) (2)	LASEL 10	1-00	00062	11!	3=00	0000	40	1-05	8>42	
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ABEL ABEL	I+2 I+2 I+2 I+2 I+2 I+1 I+1 I+1 I+1 I+1 I+2 I+2 I+2 I+2 I+2 I+2 I+1 I+1 I+1	4-903072 4-009099 F-507046 F-0000764 4-003022 4-903022 4-903022 4-000049 4-02092 4-001272 4-001272 4-001272 4-001272 4-00004	001014 001006 000014 000014 000014 000014 000014 000014 000014 001000 001000 001000 000012	256 3 256 3 25 6 16 6 256 276 7 15 5	(2) (256) (3) (2) (11) (22) (32) (32) (256) (7) (2) (10)	LASEL 10	1=00 3=00 3=00	00062	11!	3=00 3=00	0000	40	1=00 3*00 3*00	8>42	

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3.4.8 KAUTH TRANSFORMATION (KAUTH(N))

3.4.8.1 Linkage

KAUTH does not call any other subroutine.

3.4.8.2 Interface

KAUTH transforms the first N sets of channel values in the common block /DATA/ and puts the result into the common block /KAUTH/.

3.4.8.3 <u>Input</u>

None

3.4.8.4 Output

None

3.4.8.5 Storage

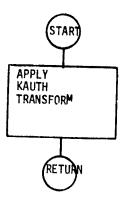
1824 Bytes

3.4.8.6 Description

KAUTH applies the LANDSAT 2 version of the Kauth-Thomas transformation to the 4 channel data in /DATA/ and stores the 4 channel result in /KAUTH/.

KAUTH

3.4.8.7 Flowchart



FERTRAN IV-P	LUS V52-51 15:25:46 2u-SEP-79 PAGE 1
KAUTH FTN	/TRIPLICKS/WR
C K	AUTH COMPUTES THE KAUTH THEMAS TRANSFORMATION
2005	SOBRIGHTINE KARTH(R) 10P-1017 [TESER#2 (A=S)
0003	DIM NSIAN CH1(209), CH2(209), CH4(209) CH4(209)
0004	DIME:SI N KH1(209), KH2(209), KH4(209), KH4(209)
0005 0005	H=A
0007	COM 3 /BATA/ C41,Ch2,Ch3,Ch4
0009	G.M. M. VKAUTH/ KH1, YH2, KH3, KH4
0009	D-14 R /,332,605,675,205,
	C =.2436 U577386. C =.990,.448U76040.
	C = .016.1345768c/
0013	DA 106 [*1, 13
0011 0012	D4 %61 J#1,4 KH(4)=30,+CH1([)+K(1,J)+CH2([)+K(2,J)+CH3([)+R(3,J)+CH4([)+R(4,J)
0013 1n1	G 24 7 1 1 6
0014	KH1(I)=KH(I)=29,5
0015 0015	KH2(1)=KH(2)=29.5 IF(H2(1) LT. 0) KH2(1)=KH2(1)=1
0017	KH3(1)#KH(3)+22.5
0018	IF(K 3(1) .LT, 0) KH3(1)=KH3(1)=1
0019 0020 100	K:/4_1)=KH(4)=29.5 Cm; IiuE
0020 1 00 0021	PETURA
0055	END
	ORAGINAL CRETILITY
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	ACIONE CONTRACTOR OF THE PROPERTY OF THE PROPE
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<u> </u>	
	Figure 3.4.8.8
	Listing for KAUTH
	

1 SCIULT 050332 105 H. 1, CM., LCL 4 17415 05 1544 42 H. 15452N, LCL 5 17645 05 101 25 M. 1542 13 135 F. 15452N, LCL 6 DATA 031213 135 F. 15452N, UGL 7 RAUTH 037219 056 NAME TYPE ADDRESS NAME		 ,,										···	·			
SCOUNT STATE STA	FORTEAN KAUTH.F	TN-PLUS	702-51 71"16L@	CKS/WR	15125	140 24	SEP-79	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PAGE 2			•				
1 SCIUSI 000322 105	PRØGRAM	SECTION	ıs											·		·
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THE TYPE ADDRESS NAME TYPE ADD	5	aTe 198	00 612	5		HHOLOLE	IN LCL				·············					
NAME YPE ADDRESS NAME TYPE ADDRESS NAME	7	KAUTU				Fihalael	/F,G8L									
NAME	ENTHY P	CLITS		·											•	
VARIABLES NAME TYPE AUDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS I 1=2 4-000120 J 1=2 4-000122 N 1=2 F-000002* NAME TYPE AUDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE AUDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS	NAME	TYPE !	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	·NAME	TYPE	ADDRESS	
NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS	KAUTH	1	-000000	···												
I 1+2 4+000120 J 1+2 4+000122 N 1+2 F+000002* ARRAYS NAME TYPE ADDRESS S17E DIMENSIONS CH1 1+2 6+010017 0 00042 209 (205) CH2 1+2 6+02067 0 00042 209 (205) CH3 1+2 6+02067 0 00042 209 (205) CH4 1+2 6+01215 4 000442 209 (205) CH4 1+2 6+01216 0 000642 209 (205) KH 1+2 7+010 00 000642 209 (205) KH 1+2 7+010 00 000642 209 (205) KH2 1+2 7+010 000 000642 209 (205) KH3 1+2 7+010 00044 209 (206) KH4 1+2 7+010 000642 209 (206) KH4 1+2 7	VARTABL	Łŝ							- 							
NAME TYPE ADDRESS SIZE DIMENSIBLES CH1 1-2 6-000000 0000002 209 (205) CH2 1-2 6-0000000 0000002 209 (205) CH3 1-2 6-00000000000000000000000000000000000	NAHE	TYFE A	UDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	
NAME TYPE ADDRESS SITE DIMENSIONS CH1 1-2 6-500000 000642 209 (205) CH2 1-2 6-500000 000642 209 (205) CH3 1-2 6-500000 000642 209 (205) CH4 1-2 6-500000 000642 209 (205) KH 1-2 6-500000 000642 209 (205) KH 1-2 7-500000 000642 20 (205) KH 1-2 7-500000 000642 20 (205) KH2 1-2 7-500000 000642 20 (205) KH3 1-2 7-500000 000642 20 (205) KH3 1-2 7-500000 000642 20 (205) KH4 1-2 7-5000000 000642 20 (205) KH4 1-2 7-500000 000642 20 (205) KH4 1-2 7-5000000 000642 20 (205) KH4 1-2 7-5000000 000642 20 (205) KH4 1-2 7-50000000 000642 20 (205) KH4 1-2 7-50000000 000642 20 (205) KH4 1-2 7-5000000000000000000000000000000000000	1	1+2	-000120	J	1+2	4-000122	N	1-2	F-000002*	······································						
NAME TYPE ADDRESS SITE DIMENSIONS CH1 1-2 6-500000 000642 209 (205) CH2 1-2 6-500000 000642 209 (205) CH3 1-2 6-500000 000642 209 (205) CH4 1-2 6-500000 000642 209 (205) KH 1-2 6-500000 000642 209 (205) KH 1-2 7-500000 000642 20 (205) KH 1-2 7-500000 000642 20 (205) KH2 1-2 7-500000 000642 20 (205) KH3 1-2 7-500000 000642 20 (205) KH3 1-2 7-500000 000642 20 (205) KH4 1-2 7-5000000 000642 20 (205) KH4 1-2 7-500000 000642 20 (205) KH4 1-2 7-5000000 000642 20 (205) KH4 1-2 7-5000000 000642 20 (205) KH4 1-2 7-50000000 000642 20 (205) KH4 1-2 7-50000000 000642 20 (205) KH4 1-2 7-5000000000000000000000000000000000000	AHRAYS		· · ·	***												
CH1	NAME	TYPE	DDRESS	517	E	DINENSI	LENS									
CH4 1-2 6-02346 000642 2-9 (205) CH4 1-2 6-002346 000642 2-9 (205) KH 1-4 4-00200 000620 8 (4) KH1 1-2 7-00.000 000622 2-9 (2.5) KH2 1-2 7-00.000 000622 2-9 (2.5) KH2 1-2 7-00.000 000642 2-9 (2.5) KH3 1-2 7-00.000 000642 2-9 (2.6) KH3 1-2 7-00.346 000642 2-9 (2.6) KH4 1-2 7-00.346 000642 2-9 (2.6) R 6-4 4-000020 000100 32 (4.4) ARELS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS			5-000000			(203)										
CH4								•								
He	CH4	1+2	-002346	009642	2 9	(205)								·		
##3 [*2 7-001564 000642 279 (206) ##4 [*2 7-00 346 000642 2.9 (209) R																
KH4	KH2			000642												
LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS 100 •• 101 •• TATAL SPACE ALLOCATED = 00710J 1524 KAUTH, LP:=KAUTH		1.2 7	-00 346	000642	2.9	(209)										
LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LABEL ADDRESS LAGEL ADDRESS 109	R	fi#4 4	1-001020	066186	32	(4,4)										
169 •• 101 •• TATAL SPACE ALLOCATED = 00710J 1824 KAUTH, LF: = KAUTH	LAPELS											·				
TATAL SPACE ALLUCATED = 00710J 1824 KAUTH, LP:=KAUTH	LABEL	ADDRES	is	LABEL	ADDR	ESS	LABEL	ADDR	ESS	LABEL	ADDR	Ess	LABEL	AUDR	rE\$S	
KAUTH, LP: =KAUTH	169	••	·	101		•										
	TATAL S	PACE ALL	.UCATER =	007100	1524		· · · · · · · · · · · · · · · · · · ·									
	KAUTH, L	₽1=KYA11}	1						- or or		 -	 , - ,				
3-106												•				
									3-106							

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3.4.9 MEAN VALUE COMPUTATION (MEAN(IX, FLAG, N, NN, SBAR, STDEV))

3.4.9.1 Linkage

No other subroutines are called.

3.4.9.2 Interface

All values are passed through the calling arguments.

3.4.9.3 Input

None

3.4.9.4 Output

None

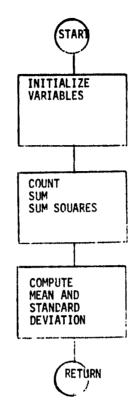
3.4.9.5 Storage

566 Bytes

3.4.9.6 Description

Mean computes the mean and standard deviation of the first N values of IX for which the value of FLAG is 1. NN is the number of values with flag = 1. XBAR is the mean. STDEV is the standard deviation.

3.4.9,7 Flowchart



BRYRAN I	IV-PLUS V02-51 15120145 20-SEP-79 PAGE 1	
EAR FTA	\Tr:- LPCKS/WP	
c	C MEAN COMPUTES MEAN , DE STANDARD DEVIATION FOR XXII	
001	SURFRUTINE MEARTIX, PLAG, N, NN, XBAR, STDEV) IMEAN FOR FLAG(1)=1	
605	AYTF FLAG(209)	
003	1, LEGE = 3 1x(5; 8) 4 4 4 4	
004	REAL X(209), ABAR, SIDEV, VARI, XNN	
	D TYPE 508 608 FURMAT(* mEAN*)	
006 1007	808 FIRMAT(* MEATI*) SED,	
000	55 = 0.	
009	*i∴ = 0	
	444 [-10 21,14	
011 012	X(1)=FL9ATI(1X(1)) 16	
C	C ETTY RMEAN(X,FLAU, N, NN, XPAH, STDEV) IFOR REAL ARRAYS	
01.5	2 / 4 · 1 · 4 · 1 · 5	
014	1F(FLAG(1), NE.1) GØ TØ 1	
1015 1016		
017		
015	1 CUATINUE QE	
001 <i>9</i> 0020	TECNULEGUIDRETURN X5A5×5/PN	
1021	VARIETO SI/(NN-1)	
052	STOEV=SONT(ASS(VARI))	
	SSEES+X(1)==2 1	
0023 1024	809 FERMAT(1,14)F5,2,F8,2) RETURN	
025	END Q.F.	
	ag .	
	TO CO	
	र्जु ^{कि}	
	84	
	TS POST THE	
	Figure 3.4.9.8	
	Listing for MEAN	

		US V02-51	0146 AL D	15126	145 2Ç=\$	EP-79		PAGE 2						
EAMOFT		\T 1ºL9(UKS/HR											
PRZGRAM														
NUMBER	NAME	S17	E		ATTHIEUT	ES		•						
1 7	\$C*DE		126	·····	FR. I. CON									
4	SYARS	001526	427		Fro Columbia	LCL								
5	8.TERD	S 00.002	1		ProfeSUN	La LCL							······································	
ENTRY P	BINTS						· · · · · · · · · · · · · · · · · · ·							
NAHE	TYPE	ADDRESS	NAME	TYPE	ADURESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAKE	TYPE	ADDRESS
MEAN		1-000000	*									·		
VARIABL	ES													
NAME	TYPE	ADDRESS	NAME	TYPE	ADDAcSS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
	1.2	4-031524			F-000000	NN	1.2	F-000010*	_S	P#4	4-000000	5>	Pe4	4-00004
STOEV	He4	F=00:014*	VARI	H#4	4-051514	XBAR	R#4	F-000012•	XNN	R-4	4-001520			
ARRAYS														
NAME	TYPE	AUDRESS	515	<u>E</u>	CIMENS 18	NS								
	1.01	F-0000004+			(209)	, , , , , , , , , , , , , , , , , , , 								
IX	102 E04	F.=00 002* 4=000010		209 416	(205) (205)							······································		
LAPELS														
LABEL	ADDR	ESS	LABEL	ADDR	ESS	LABEL	ADDR	ESS	LABEL	ADDR	ESS	LABEL	VDC	1635
1	1-00	0260	16	•	•	444	•	•	808	•	•	6591	9	
FUNCTIO	NS AND	SUPRPETIN	ed Billo	ENCED							- 			
t sort														
							```						2.7.	
TOTAL S	PACE A	LLDCATED =	062154.	506								· · · · · · · · · · · · · · · ·		
MEAN.LP	1=MEAU		•											· · · · · · · · · · · · · · · · · · ·
								······································						
														
									110					

3.4.10 SPECTRAL PLOT (PLOT(IX, IY, CHAR, N))

3.4.10.1 Linkage

PLOT does not call any other subroutine.

3.4.10.2 Interface

All data is passed through the calling arguments.

3.4.10.3 <u>Input</u>

None

3.4.10.4 Output

A spectral plot is written to unit 8 and printed, (figure 3.4.10.4).

3.4.10.5 Storage

3215 Bytes

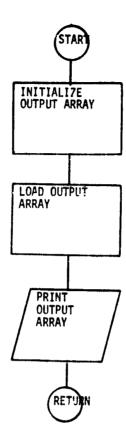
3.4.10.6 Description

The first N characters in the BYTE array CHAR are plotted at the points (IX,IY) for 20 \leq 120, $-5 \leq$ IY \leq 50.

Out of range points are truncated and plotted.

:

3.4.10.7 Flowchart



FERTHAL		PAGE 1
PLOT.F1	IN /TRIBLECKS/WR	
0001	SUBROUTINE PLOTTIX, IY, CHAR, N)	
2000	IMPLICIT IN HIGHROS (A-E)	•
0003	INTERENA SCALE(26)	
0004 0005	BYTE MAP(101,56), CHAR(1) INTEGERO2 (1(1), IV:1)	
00Cá	DATA SCALE/1-51,101,151,101,1121,1201,1251,1	301.1351.1401.1451.
	1*501,1551,1601,1 1,1701,1 1,1601,1 1,1901,1 1	,11001,
	2' ',[116',' ',120'/	•
0007	TY" & 808	
8020	BOB FERNATO PLOTO	
0009 0010	Dd 9 xe1,101 1SET Dc 90 Ye1,56	•
0011	90 HAP(r, Y)=1 1	
0012	Del 100 X=1.101.10	
0013 0014	DJ 1:0 Y=1,56,5 100 MAP(X,Y)=1+1	
0015	DØ 1 5 Y=1,56	
0016	105 HAP(301, Y)=1+1	
0017	DZ 200 1=1.0 1 PLET	ON THE PROPERTY OF THE PARTY OF
0018	X*[X(1)=19	3 9
0019	Y*57.(1Y(1)+6)	
0020	IF (X.GT,101)X=101	
0022	IF(X:LT.1)X=1 IF(Y:GT.56)Y=56	
0023	IF(Y+LT.1)Y=1	
0024	IF(C"AR(1) ,EQ, 0) CHAR(1)=101	% 0
0025	200 MAP(^,Y)=CHAR(I)	TO STEE
0026	UC 250 J#1.56 BLTPUT	<u>8.£</u>
0027	K=21	20 Ga
0028 0029	M=J+4 IF(M?D(M+5),EQ,D)K=13=M/D	
0030	250 WRITE(8,903) SCALE(K) (MAP(L.J), L=1.101)	
0031	WRIT=(8,904)(SCALE(J;,J#0,26,2)	
0032	CL2SE(UNITa8,DISPs'PRINT')	
0033	099 RETURN	
0034	902 FARKAT(+1+)	
0035	903 FKRM-T(1H .A3.101A1)	
0036 0037	904 FØRMAT(3X,11(A3,7x2//) ENO	·
VV3/		
		Figure 3.4.10.8
	· .	isting for PLOT
	•	
<u></u>		
	•	
		3-114

ORTHAN	I IV-PLI	US V02-51 /TRIBLE	.KC\AD	15123	145 20-	EP+79		PAGE 2					 	
		_	, NOT HI			·						· · · · · · · · · · · · · · · · · · ·		
	SECTI						. 	 						
NUMBER	NAME	•	: 		ATTRIEU'			•						
1 3	\$C \DE!		291 36		Raglacoi									
4	FV4RS	015216	2887		RayLylb! Hhalali	LCL								
	VIENE	2 00 002		-	NA PER CO	<u> </u>			 					
ENTRY F	PEINTS													
NAME	TYPE	ADDRESS	NAME	TYPE	AUCFESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAHE	TYPE	ADDRESS
PLBT	 	1-000000												
VAPIAUL	LC.						,		· · · · · · · · · · · · · · · · · · ·	·····				
		ADDRESS	NAME	TYPE	AUDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
1	102	4-013204	.1	1.2	4-013206	K	1.2	4-013210	1		4-013214	H		4-013212
N	1+2	F=00"010=	X	102	4-613200	Ÿ	102	4-013202	<u> </u>		4-775574		1 4 5	
CHAR IX IY MAP SCALE	L+1 1+2 1+2 1+2 L+1 1+4	F-990936+ F-90'092+ F-90'004+ 4-90150 4-800600	000002 100002 013033	2523 2223	(1) (1) (1) (161,50 (26))								
LAGELS														
LABEL	ADDRI	ESS	LAREL	AUDR	ēSS	LABEL	ADDF	RESS	LABEL	ADD	RESS	LABEL	ADDR	EžS
90 808*	#4 3=0↑		100		•	105 9031		00012	200		00022	250 999		•
FUNCT12	NS AND	SUBRPUTIN	ES REFER	ENCED				······		****				
									······		· · · · · · · · · · · · · · · · · · ·			
CLASS		I ACATED =	014474	3215					····					
		ししじ レス・ピジー	1147730	·										
TOTAL S	SPACE AL		FRATEN											
TOTAL S	INSTRU	CTIONS SENI	ERATED			 							- " -	
TOTAL S		CTIONS SENI	ERATED						 					

3.4.11 STORE NEW DATA (PUT(SEG, ARRAY, NAME))

3.4.11.1 Linkage

GETNAM may be called.

3.4.11.2 Interface

The interface with the calling program is through the calling arguments and the common block /ANCIL/.

3.4.11.3 <u>Input</u>

None

3.4.11.4 Output

None

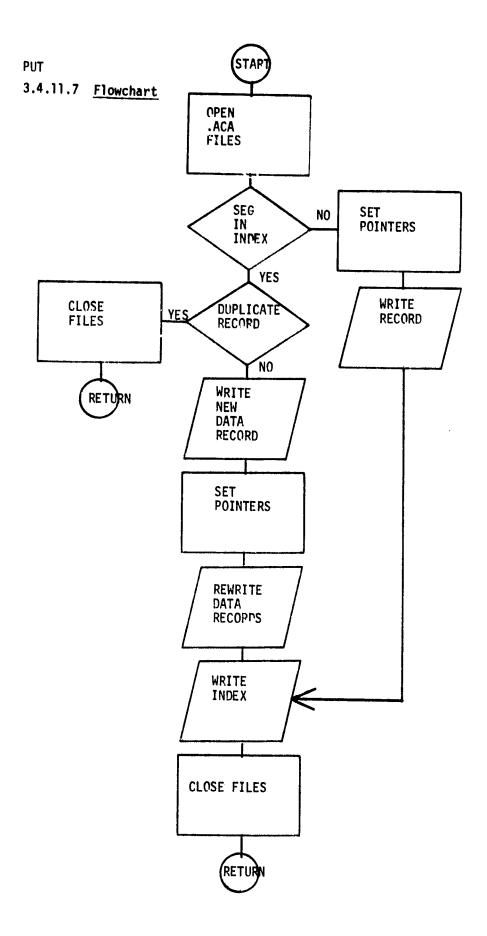
3.4.11.5 Storage

2022 Bytes

3.4.11.6 Description

Put opens the ACA files, then looks for a previous entry for segment SEG. If no such entry has been made, a new entry is made. If segment SEG does occur, PUT checks that the current data is not duplicated, and if it is not, the current data is added to the data base.

ARRAY is the dot data. NAME is the identifying code name. DATE and FILL are passed through the common block ANCIL.



FORTRAN	15[22]44 Stern 10
PUT ETN	ZKSZWR
0001	SUBPRITING PUTICES AND AN ALLES
C0.00	1531
0000	F. 3. C.
0000	DI JE SIZA TAREX (256) CUPPER (256) ANNINI (256) HINDEY (244)
9300	V. 10 .4
0007	
0000	
6000	
0010	A JANGIL/GATE, D. TE(2), STATUS, FTILLAR
0012	DATE COLLAND TO
0013	F1L5/36-67
0214 10	
	F14(32) £0
0016	SPEN (L. ITEZ NATE E ET TENCE TON
0017	(211) AINDEX
0619	
ن د د	H THE INDEX FOR THE SECRENT AMOREO
0021	LEV-1.2
0022	1/2 20 141.05%
0023 0024	IF (14DEX(J),E0,0) GF Tk 40
0025	CK ITINIE
	1. THE INCEX
0627	±0° x = ⊀ + 1
0029 0029	103 39, 1=1,256 30 [ext.)=6
0030	
0031 40	
0033	MAZR.CEXANDED+1
0034	THANKS (INDICATED AND AND AND AND AND AND AND AND AND AN
66.00	
9500	GA TO AS
2 22	- 1
0039	Principal (1941)
0039	44
	10. 2− 331,256 55 BUF(') € BUFFEK(V)
0042	
2	
0644	
	1

FERTRA	FERTRAN IV-PLUS V02-51 15122144 20-5EP-70
10.00	30x5/FR
0046	5 GF TE
0048	NE 51/F (5) 1 66 10
0049	i ii
0050	Eu, RUF(;) of Te
0052	90 1 GH TV
	3
0051	IF (9.0F (256) , Ed, NEXT) 68 18 120
0055	(256)
200	
0053	AFAD PICECUAL RICE
9000	
2017	123 6377 395
0061	
2900	
0063	READ COLLAST) MARK
0064	MATTON (256) # 14 X X 6C
9065	IF (L.ST., ED., LEXT) NAVINICES . PAKREC
7900	BUFFER (255) #44XBR
9679	IF (LAST .N. CEXT) HRITE(8'AEXT) BUFFER
0220	1NIE: (J+1) = 1AXX+EC 60 ARIT: (711) - 1:00X
0071	}
0073	メンド (ア・ス) 「トンボン しょうかい コンド (ア・ス) 「トン・ボン しょうかい しょうかい コンド
0074	200 Cartitue
0076	CL:55 (LAITE)
0077	STAT :SED
0079	NE TUNA
0630	INOFON
0081	FUN 1S
0082	4 -
0033	CALL GETWAMETW. FIR.)
00B5	62 13 10 END
	3-119

Value	
NUMBER V.P.S. STEE ATTRIBUTES	E ADDRESS NAME TYPE A-D05020 A-005020 A-005020 F-000020 STATUS 102
3 50.141 302144 362	E ADDRESS NAME TYPE A-005020 IFLAG 102 A-005020 STATUS 102
1/2 1/2	E ADDRESS NAME TYPE 4-005020 IFLAG 10-2 4-005020 STATUS 10-2 F-0000020 STATUS 10-2
STEAR STEA	E ADDRESS NAME TYPE 4-005020 IFLAG 10-2 4-005020 STATUS 10-2
TYPE ADDRESS AMP TYPE ADDRESS NAME TYPE TYPE ADDRESS NAME TYPE TYPE ADDRESS NAME TYPE TYPE	E ADDRESS NAME TYPE A-005020 IFLAG 10-2 A-01000 H I I I I I I I I I I I I I I I I I
Filhar 50'10 32	E ADDRESS NAME TYPE A-D05020 IFLAG 102 A-001000 M 10 F-0000020 STATUS 102
TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE	E ADDRESS NAME TYPE 4-005020 IFLAG 10-2 4-0010020 STATUS 10-2
TYPE ADJRESS MAME TYPE ADJRESS NAME TYPE ADDRESS NAME TYPE	E ADDRESS NAME TYPE A-005020 IFLAG 10-2 A-0010020 STATUS 10-2
1=00cc00 1ES TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE 1=2 4=00cc00	# ADDRESS NAME TYPE 4-005020 FLAG 102 4-001000 M 14 F-0000020 STATUS 02
TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE 10-2 4-005006 ICNT 10-2 10-2 4-005006 ICNT 10-2	### ##################################
TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE TYPE ADDRESS NAME TO COLUMN	### ADDRESS NAME TYPE ####################################
TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE ADDRESS NAME TYPE 1	A-005020 IFLAG 10-2 A-005020 IFLAG 10-2 F-0050520 STATUS 10-2
192	4-005020 1FLAG 1-2 4-001000 H 1- F-000002• STATUS 1-2
TYPE AUGHESS SIZE CIPENSIGNS 102 4005022 SEG 102	F-000002 STATUS 102
TYPE ADDRESS	
TYPE AUDRESS	
18-2	
1*2 4-55/500 5u1065 2 6 (256) L*1 4-504655 5u1062 1 (2) L*2 4-504655 5u1062 1 (2) L*2 4-504014 030404 2 (2) L*1 7-007050 035440 16 (32) L*1 7-0050549 040540 256 (256) L*2 4-30 600 031569 256 (256) X 1*2 4-30 600 031569 256 (256) N 1*2 4-004550 5u1060 256 (256)	
L*1 4-300014 301002 1 (2) L*1 4-300014 30002 1 (2) L*1 7-300000 03000 14 (32) L*2 6-300010 050110 36 (36) L*2 4-30 060 03100 226 (226) X 1*2 4-30100 03100 226 (256) K*2 5-00-056 05006 3 (3) N 1*2 4-00400 001000 256 (256)	
L*1 7-301312 11984 2 (2) L*2 6-304619 050419 36 (26) L*1 7-005049 040740 16 (22) L*2 4-30 660 64100 226 (226) K 1*2 4-30160 051569 226 (256) K*2 6-003060 051569 226 (256) N 1*2 4-004060 051000 256 (256)	
102 6-104610 050110 36 (36) Lo1 7-000049 0u0540 16 (32) 102 4-10 560 61000 226 (226) 102 4-50160 001069 226 (226) 102 4-00160 001069 226 (226) N 102 4-004560 501000 226 (226)	•
1*2 4=10 C00 C01U00 226 (256) X 1*2 4=001000 001000 226 (256) I*2 F=U0.026* C00006 3 (3) N 1*2 4=004C00 C0100U 256 (256)	
X 1%2 4-991000 901009 2%6 1%2 F-90-0006 001000 2% 3 1%2 4-004000 001000 2%6	
N 1*2 4*004C60 CU100U 256	
LABEL (DDRESS LABEL ADDRESS LABEL ADDRESS	PRESS LABEL ADDRESS
1 DC00060 20 ** 30 **	e d
764 100 050	101102 140 1-001220

; 	FURTAN AN OLUB MAD I
,	FIRTRAN IV-PLUS VO2-51 15122144 2C=SEP=79 PAGE 4 PUT,FIN /TF:ULPCKS/WR
	FUNCTIONS AND SUBRECTINES REFERENCED
• .	CLUSS GETHAM UPENS .
•	THTAL SPACE ALLECATED = 007714 2022
	NO FPP INSTRUCTIONS GENERATED
	PUT, LP := PUT
•	
•	
•	Q ^t e
1	
ì	TO DE
ı	E. I
	to 23
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12	
, 11 10	
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6	3-121
4	

3.4.12 SCREEN ALL DOTS (SCRALL(N))

3.4.12.1 Linkage

SCRALL does not call any other subroutine.

3.4.12.2 Interface

SCRALL interfaces with the calling routine through the calling argument and the common blocks /ANCIL/, /DATA/, /KAUTH/, /FLAG/.

3.4.12.3 Input

None

3.4.12.4 Output

None

3.4.12.5 Storage

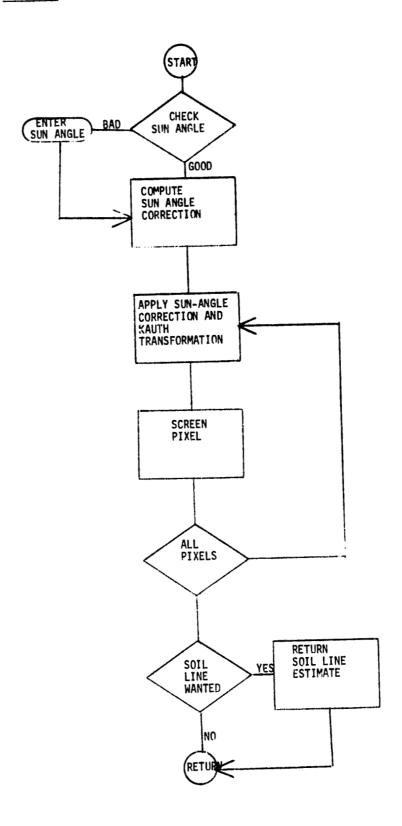
2579 Bytes

3.4.12.6 Description

SCRALL is an implementation of the SCREEN algorithm developed for LACIE by ERIM.

The data are transformed to KAUTH coordinates and stored in /KAUTH/. The sun angle correction factor is applied and the data are screened. The screening result for each pixel is stored in the BYTE array FLAG. A soil line estimate is made, and if SLN = 99 it is returned to the calling program.

SCRALL must be compiled with the CO:50 switch.



C.			· · · · · · · · · · · · · · · · · · ·
FERTRAN IV-	PLUS V37-51 15124150 20-SEP-79 PAGE 1		
SCRALL .FIN	/T! # 3L PCKS/NP		
<u>C</u> :	SUBREUTINE SCRALL KAUTH TRANSFERMS AND SCREENS CH DATA		
C	COMPTLE WITH THE COIPO SWITCH.		
. C	SURRESTINE SCRALL (N)		
0002 0003	HEAL R(4,4), 72, C, 2(4,19), RR(4,4), Y(4), CG(19)		
0004	INTEGER 11(19), JJ(19), LL(21), X(4), † INTEGER 29-2 SSN		
0005 C	INCLUDE "INCLU-FTM"		
- C		•	
0005 • C	INTEGER-2 CH1(207), CH2(205), Ch3(209), CH4(209)	•	
0007 * 00(5 4	INTERES KH1/2031.KH2(2021).KH3/2001 MU4/2001		
0009 +	NYTE FLAG(219), FAY(32), FEN(32), FIN(32) INTERER® SEC. PATE(2), CODE, STATUS, FILL (36)		
0010 + 0011 +	INTEGEROR 140, SL N. CAT. GAT. LATCO. LNG(2) COUNTY /ANCIL/ GRUE, DATE, STATUS, FILL	E.B.	
0012 *	COMMUN ABATAY SHI CHS. CH3. CH4	REPRODUCE PAGE 19	
0013 • _0014 •	COMMEN VETTAN SHIJKHZJKF4	FG	
0015 • 0016 •	COMEN FIL WAR FUNDEING FANGKAN	रुष्टि	
0017 •	FOULVALENCE (SA), FILL(2)), (SAN, FILL(3)) FOULVALENCE (SA), FILL(4)), (GAM, FILL(10))		
0C19 • C	EDUTYALENCE (LAT(1).FILL(5)), (LNG(1),FILL(7))		
• C	END TACLU.FT	٠,9	
0019 ° C	DATA RR/.33231563166758126278.	OO THE	
	C29317, -, 09096, , 27735, , 49633, C89952, , 42839, , 07592, -, 04080,	2 3	
^^	C01594,,1306 ,-,45187,,68232/		
0020	DATA 2/0,0,0,0,0,0,1;0, C 0.0,0,0,0,0,0,0,0		
	C +, 02375, 0, 0, 1, 0, 0, 0,		
	C1275,0.0,-1,0,0,0, C -6.1,-1,0,0,0,4,4,		
	C 0.55556,1,0,0,0,0,0,0,0 C =0.53333333,1,0,0,0,0		
	C 2,5,9,0,0,0,0,0,0,		
	C 1.0.0.0.0.0.0.0.		
	C -0.142957, 3.0.=1.0.0.0.		•
	C C.675, -1, -1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,		
	C 3.0.0,0,0,0,0,01,0; C C.01,0,0,0,-1,0,		
	C -,5,-1,0,-1,0,-9,5,		•
)	C =,4,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0		
0021	C =1.0.0.4.0.0.6.0/ DATA CC/16,,12,,-4,,14,,20,,156,,-8,,100,,7,5,69,,3,25,		Figure 3.4.12.8
	C =7551.5.4.51[112.2537.75/		Listing for SCPALL
0022	DATA 11/2,3,4,5,6,7,0,10,10,12,12,18,18,18,18,18,18,60,20,20/ DATA JJ/60,60,60,60,60,60,60,9,60,12,60,13,14,15,16,17,21,		
	C 19,60/	3_124	
1		3-124	

率 、 52

FERTRA SCRALL		US VOC-51 15	24 20 24=	EP=79	PAGE 2				
		> THISEBOKS > KK							
0024		DATA LL/47,46,45,44, # 13,12,1,11/	43,42,41,34,33	,32,31,26,25,	24,23,22,21,				
	(;	40 GARBLEDI 34,35	CLEU0; 32,31 +	AZE					
	<u>C</u>	20 ATERI 10 SHADA	N. 11 EVER HAT	ERI 1 GOOD.					
		TYOR REA							
0025	304	FRIATE SCRALL)						
0026	p	SS'=30 # ·[TE(8,993) rel.	CH2.CH3.CH4			***************************************			
0027	993	F RMAT(1 1,1914)							
0028	600	IF (TAG, LT, 15, RR, TAG	GT BOTTYPE 10	1, SEG, DATE					
0029 0030	101	FOR'ATC' INPUT S IF(IAG, LT, 15, OR, IAG	GT.BB) ACCEPT	201 . TAG	(ALL!)				
0031	201	FARSAT(12)							·
0032 0033		27=146/57,3 15(/2,LT,0,1) 22=	(. Q.) 7						
0034		1=0.77713/SINCEE)			······································			
	<u>n</u>	Type 903.1AG.C	- 8						
0035	<u> </u>	FRITE(5,990) 1AG	990.1AG.C						
0036		IF (C.LT.0.1) RETU	γ, γ,						
0037 0036	990	DZ 100 K=1,N	7,510,4)						
0039		D2 5 I=1.4							
0046 0041	5	Y(1) 0 X(1)=CH1(K)							
0042		X(5)=CH5(K)							
0043		X(3)=CH3(K)							·
0044	D	X(4)=CH4(K) IF(4.EG.1) TYPE	795.X						
0045	995	FARMAT(1 X 1,4	151						"
<u>0046</u> 0047		DØ 6 J=1.4 DØ 6 J=1.4							
0041	6	Y(1)=Y(1)+X(J)+RR(J,	1)						
0049		KH1(K)#Y(1)+,5							
<u> 0051</u> 0051		IF(4H2(K),LT,554) \$	5 1 = KH2 (K)	SOIL LINE ES	STIMATE		· ····································		
0052		KH3(x)=Y(3)+.5							
0053	n	KH4(K)#Y(4)+,5 [F(M.EJ.1)TYPE 995.	KH1fK1.KH5fK1.	KHZ(K)-KNVIK	•				
0054	98	D 66 I=1,4			<u> </u>				
0055	66	Y(1)±Y(1)≠C L=1	I SLN ANGL	E CORRECTION					
0055 0057	1_	CENTIALE							
	D	IF (K.LT.3) TYPE	995, L. T. U. C. ()	.)					
0058	996	IF(K.LT.2G) YRIT FahmAT(1,14.1	2,5F10,4.F16.4	. <u></u>				,	 -
0059		IF (L.IE.21) T=LL(L)		·					
12 0060 11 0061		1F(L .GE. 20) GZ TO U=0.	49						
10 0662		DE 7 [=1,4	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		·
0063		U=9+Y(I)#2(1.L) IF(U .LT, CC(L)) G3	1 4 3	- 					
0064 7_0065		L=JJ(i)	16 J						
6 0065		GUT 1							
\$_0067_	3	Conflobe							
al				-		3-125			

• • • •

3-126 PAGE 3 20 - SEP-79 15124150 SCHALL, FIN / / THILLGESING 65 0054 0070 0071 - 0674 0674 0075

BRTRAN CRALL.		VTRIBLE	CKS/WR	15124	120 20-	EEPe79		PAGE 4						
PREGRAM	PECII													
NUMBER	NAME	518	E		ATTHIEU	TES								
1	SCEL	1 001230	332		RK, I, LB	N.LCL								
	4PAT	A 000020	8		Pho Coib	MALCL								
3	SIPAT		34 338		FibeLoCO FibeLoLE	N.LCL N.LCL								
5	ATFIF	8 000002	1		th. C. LUI	N, LCL								
6	DATA	00.120 003210	40 636		RhoLoKVI KhoLoKVI									
<u>.</u>	SALTH		836 		FheLeevi									
9	FLAG	00 322	105		hh.L.EV	F,GBL								
10	FILNA	4 00c142	49		RhoLogy	i dill								
ELTOV P	411.20													
ENTRY P														
NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS
SCHALL		1-000000												
														
VARIABL	ES													
		ADDECCE	WAR-	Type	Anticker	NAME	THRE	ADBOECC	NAME	THRE	* U. D. D. C. C. C.	NAUF	-yar	Annesse
NAME	LIPE.	ADDFESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	TYPE	ADDRESS	NAME	IYE	ADDRESS
<u> </u>	R#4	4-000104	CYDE	102	6-000000	GAM	102	6-000032		102	4-001232	IAG	102	6-000012
J Sat	1.2	4=891234 6=600014	K Seg	102	4-061230 4-061226	KAN SLN	1.2	10-000140 6-000014	L SSN	1.02	4-001236 4-001224	N Status	106	
7	1+2	4-001222	U	ke,	4-061244	22	R+4	4-000100			4-38427			
ARRAYS														
NAME	TYPE	ADDRESS	517	5	DIMENSI	2 NS								
							·		 		~ 4	3		
<u>CC</u>	R04	4=00971n		279	(205)						ORIGINAL			
CHI	1+2	7-0000001 7-00 642	000642 000642	209	(209)		·				র	<u> </u>		•
CH3	1.2	7-001504	000642	2:9	(205)						Z	g		
DATE	1+2	7-002345 6-00 002	000004	2:9	(205)							=		
EAN		10-000100	399040	15	(32)							ı Ħ		
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LAT	1+2	6-00/020	030034	2	(2)									
	1.2	4-001140	000052	- 21	(21)									
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3.4.13 DATA SORT (SORT(X,Y,P,N))

3.4.13.1 <u>Linkage</u>

Sort does not call any other routine.

3.4.13.2 Interface

All data is passed through the calling arguments.

3.4.13.3 <u>Input</u>

None

3.4.13.4 Output

None

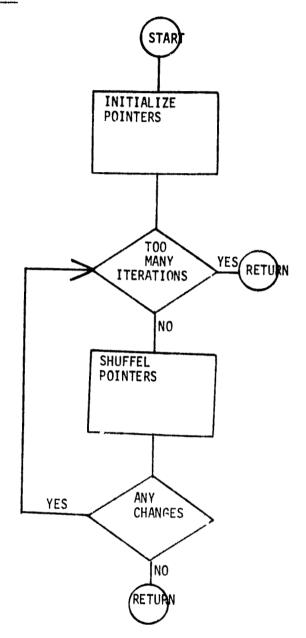
3.4.13.5 Storage

159 Bytes

3.4.13.6 Descriptio

Sort defines the pointer array P so that $X(P(1)) \le X(P(2)) \le \cdot \cdot \le X(P(N))$. In case X(P(K)) = X(P(K+1)) then $Y(P(K)) \le (P(K+1))$.

3.4.13.7 Flowchart



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· —	C P(J) SECREDAR D PRINTER	LY SURT VARIABL	<u> </u>				
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<u>ن</u> خ	C N	NUMBER 2	of ELEMPHIS					
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0002		117FGE 7+2 En 1 (=1.1	X(X),Y(Y),P(A	.)	<u> </u>		<u> </u>	
0004	1	P(1)=1				0 M		
0005		M E Ü				26		
0006	<u> </u>	EK+1				90		
0008		4F=0	res da			<u> </u>		
0009 0010		IF(K.GT,N)	ıi.			CH		
0011		IF (x(P(I=1	1)),LT,X(P(1)))	GO TE 3		A		
0012 0013		1F(X(P(1+1	.)).LT,X(P(I))) .)).LE,Y(P(I))	GO TE 3		REPRODUCIBILITY OF ORIGINAL PAGE IS		
0014	4	/F=1				7814		
0015 0016		P(1-1)=P()	()			S POOR S		
0017	_	F(1)=XV				813		
0016	3	IF (KF.EG.	t) Ge Te 2			1		
0021		RETURN						
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					Figure 3,4,13.8			
					Listing for SORT			

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ARRAYS					<u> </u>	·····								
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Y 	[+2	F=00 G:14*	*	• 	(#)									
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3.4.14 TRAJECTORY PLOT (TRPLT(IX, JY, NT, ND, NB))

3.4.14.1 Linkage

TRPLT calls no other subroutines.

3.4.14.2 Interface

The interface with the calling routine is through the calling arguments and the common block /TRAP/.

3.4.14.3 Input

None

3.4.14.4 Output

TRPLT creates line printer plots. (fig 6.4.14.4)

3.4.14.5 Storage

14,445 Bytes

3.4.14.6 Description

TRPLT creates plots of size IX by JY, packed several to the page with NB dots per plot, each dot plotted NT times for a total of ND (209) dots. The plot format is given by the array PLT.

Current (Aug 1979) practice is 2 dots per plot, up to 16 times per plot, 2 plots per page. The array PLT is read from [200,7] GRINT.DAT.

The points

(T(I),X(I,N)) and

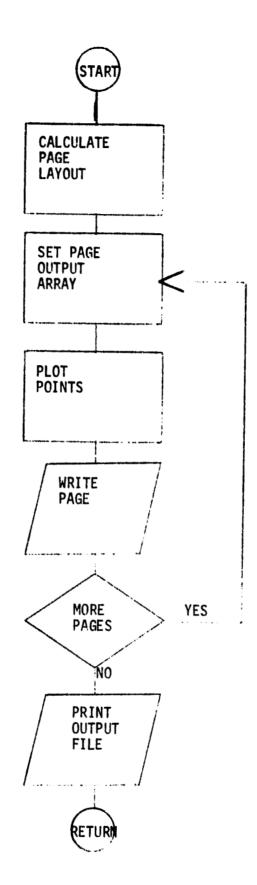
(T(I),Y(I,N)) are plotted

with symbol CHAR(I,N). The number of N's per plot is NB. There may be several plots per page.

Changing the array PLT will radically change the output.

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TRPLT
3.4.14.7 <u>Flowchart</u>



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0041		

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TRPLT.FTN	FRPIRAN 14-PLUS V02-51 15124112 20-SEP-79 PAGE 2 TRPLT.FTN /THIR BCKS/NR
0042 109	JECT(HT), 3T, IX) I(HT)=1X
0044	Dr. 110 JL=1,17
0045	D2 110 Bs1,43
0047	1F(K,GI,209) 63 73 120
946	3,EQ: 91 ,AND,
0049	IF (PAGE(13, 3), EQ. 9) PAGE (12, 3) #PAGE(11, 3) *1
1500	3.3)+1
0052	1F(PAGE(13,3), GT. ' ') PAGE(13,3) 2.0'
0054	DO 110 KFE127
0000	I' (A(KI,K),ST,JY) X(KI,K)%Y
0057	['(Y(K], K), GT, JY) Y(KI, K) E Y
0059	PXEX(KI,K)+(JI-1)+JY
0000	P`#Y(KT*K)+(JL=1)+JY PT#76X1 +/1-11+14
0061	IF CHARKET & DELEKTING - CHERKET & DELEKTING - IN
0063	IF (CHAR(KT, EG. U) CHAR(KT, K) = +BT
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1067 304 D	LOST (* 11)
0059	* ITE(6,300) PAGE
	CONTINUE
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T5	1.2	4-016533	48	104	4-016556	NB	102	F-000012*	ND ND	<u>i•2</u>	F-080810+	NP	102	4-016524
NT	142	F=00+336*	Р	l•	4-016534	PT	1+2	4-016564	PX	1+2	4-016560	PU	10.	7-016562
ARRAYS														•
NAME	TYPE	ADDFESS	517	E	DIHENSIE	NS								
CHAR	L*1	6=037354	006426	1672	(16,209)									
LDFT	1+2	6-045100	001504	418	(5,205)									
PAGE	<u> 102</u> 11	6=04=774 4=00:000	000104	3751	(121,62)									
PLT	1.01	6-032140	005214	13.0	(60,45)									
Ţ	1.2	6-032190	000040	16 3344	(16) (16,209)									•
Ŷ	1+2	6-01>040	015040	3344	(1015řá)									
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3.4.15 VEGETATION INDEX (VIN(VEG,ID,N))

3.4.15.1 Linkage

VIN does not call any other program.

3.4.15.2 Interface

The interface with the calling arguments and the common block /DATA/.

3.4.15.3 Input

None

3.4.15.4 Output

None

3.4.15.5 Storage

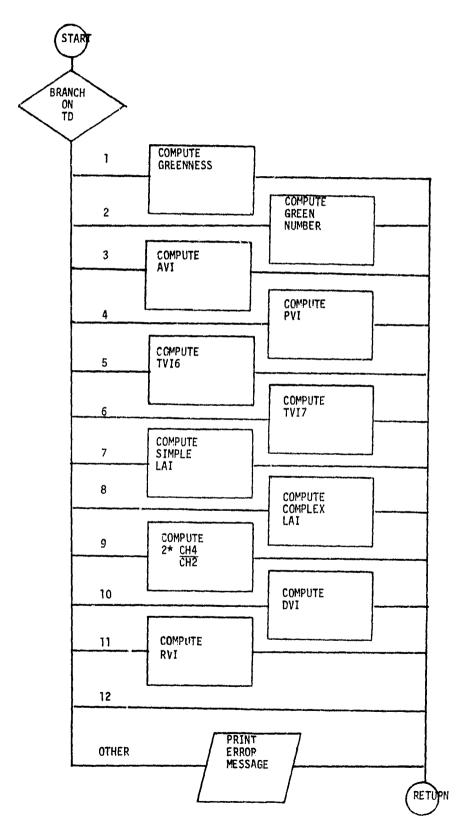
4160 Bytes

3.4.15.6 Description

VIN computes the vegetation index specified by ID for the first N points of /DATA/ and puts the result in VEG. The identifiers are

- 1 Greenness
- 2 Green Number
- 3 Ashburn Vegetation Index
- 4 Perpendicular Vegetation Index
- 5 Transformed Vegetation Index 6 TVI6
- 6 Transformed Vegetation Index 7 TVI7
- 7 Kannemasu's simple leaf area index
- 8 Kannemasu's complex leaf area index
- 9 Berkely ratio 2.CH4/CH2
- 10 DVI
- 11 RVI
- 12 Unused

3.4.15.7 Flowchart



3-141

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000.4	1. TEGNA-2 CH1(2/2), CH2(205), CH3(209), CH4(209)	TO,
	9VIE FLAG(210), FA (32), FEV(32), FIN(32)	IU(
0005 +	147ESER+2 SESTATE(2),0ELE/STATUSFILL(36)	CIR P
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* *	7	
0617	HEAL C1(209), C2(249), C3(265), C4(209)	
	(17,11,1	
0620	D2 (5) L21 V	
0021	C2(1)#F12AT(Cn2(1))	
0022	C3 - L	
	36 1:	
0027 1	302 T 1 10 E	
	VES(I)	Figure 3.4.15.8
00.31	35.	: 100
0532 2	JF 25 141.05	
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RRITE(5,334) ID
F3 MAT(1 CAD ID #1,18,1
VEG(1)=9999,
RETURN
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<u> 11</u>	1-051736	12 40	1=302024	<u>13</u> 50	**	15	••	20 70	92	
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